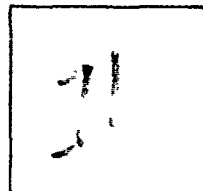


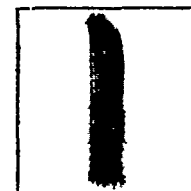
PHOTOGRAPH THIS SHEET

ADA 079831

DTIC ACCESSION NUMBER



LEVEL



INVENTORY

USAF ETAC 78-77/12  
DOCUMENT IDENTIFICATION

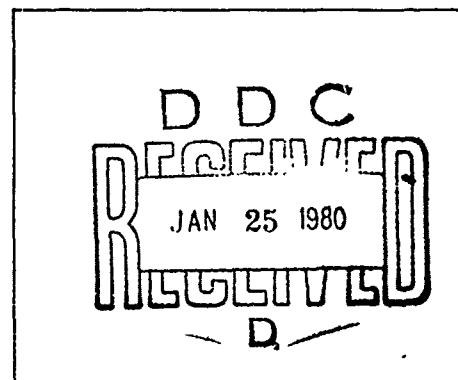
DISTRIBUTION STATEMENT A

Approved for public release;  
Distribution Unlimited

DISTRIBUTION STATEMENT

ACCESSION FOR	
NTIS	GRA&I
DTIC	TAB
UNANNOUNCED	
JUSTIFICATION	
BY	
DISTRIBUTION /	
AVAILABILITY CODES	
DIST	AVAIL AND/OR SPECIAL
E	22

DISTRIBUTION STAMP



DATE ACCESSIONED

80 1 21 114

DATE RECEIVED IN DTIC

PHOTOGRAPH THIS SHEET AND RETURN TO DTIC-DDA-2

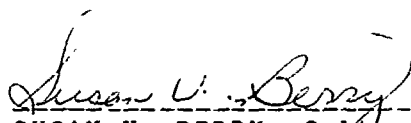





Review and Approval Statement

This report is approved for public release. There is no objection to unlimited distribution of this report to the public at large, or by DDC to the National Technical Information Service (NTIS).

This technical report has been reviewed and is approved for publication.

  
-----  
SUSAN V. BERRY, 2 Lt, USAF  
Information Retrieval  
Manager

FOR THE COMMANDER

  
-----  
WALTER S. BURMANN  
Scientific & Technical  
Information Officer

## **DISCLAIMER NOTICE**

**THIS DOCUMENT IS BEST QUALITY  
PRACTICABLE. THE COPY FURNISHED  
TO DDC CONTAINED A SIGNIFICANT  
NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.**

UNCLASSIFIED

RITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1 REPORT NUMBER USAFETAC/DS- 79/112	2 GOVT ACCESSION NO.	3 RECIPIENT'S CATALOG NUMBER															
4 TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- TORREJON AB, MADRID, SPAIN		5 TYPE OF REPORT & PERIOD COVERED Final rept.															
7 AUTHOR(s)		6 PERFORMING ORG. REPORT NUMBER															
9 PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB IL 62225		8. CONTRACT OR GRANT NUMBER(s)															
11 CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB IL 62225		10 PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS															
14 MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12 REPORT DATE 3 OCT 78															
		13 NUMBER OF PAGES p.															
		15 SECURITY CLASS. (of this report) UNCLASSIFIED															
		15a DECLASSIFICATION DOWNGRADING SCHEDULE															
16 DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.																	
17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18 SUPPLEMENTARY NOTES																	
19 KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperature</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperature	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative humidity	*Climatological data	(over)
*RUSSWO	Daily temperature	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative humidity	*Climatological data	(over)															
20 ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for TORREJON AB, MADRID, SPAIN. It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling Versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)																	

DD FORM 1 JAN 73 1473

UNCLASSIFIED

19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

\* SPAIN

\* TORREJON AB, SP

20. → and dew-point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurrence tables. ↗

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

# REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

## HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

## DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

## DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

### PART A WEATHER CONDITIONS

#### ATMOSPHERIC PHENOMENA

### PART B PRECIPITATION

#### SNOWFALL

#### SNOW DEPTH

### PART C SURFACE WINDS

### PART D CEILING VERSUS VISIBILITY

### SKYCOVER DATA NOT AVAILABLE

### PART E DAILY MAX, MIN, & MEAN TEMP

#### EXTREME MAX & MIN TEMP

#### PSYCHROMETRIC-DRY VS WET BULB

#### MEAN & STD DEV . (DRY BULB, WET BULB, & DEW POINT)

#### RELATIVE HUMIDITY

### PART F STATION PRESSURE

### SEA LEVEL PRESSURE DATA NOT AVAILABLE

## STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

## MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY	APRIL	JULY	OCTOBER
FEBRUARY	MAY	AUGUST	NOVEMBER
MARCH	JUNE	SEPTEMBER	DECEMBER

STATION NO ON SUMMARY		STATION NAME		LATITUDE		LONGITUDE		FIELD ELEV (FT)		CALL SIGN		WHO NUMBER	
14011		TORREJON AB SPAIN/MADRID		N 40 29		W 003 28		1994		LETO		08227	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT BARO.					
1	Torrejon AB Spain	AB	Oct 57	Mar 62	N 40 30	W 003 28	2001	2056	24				
2	Same	AB	Mar 62	Dec 70	N 40 29	W 003 28	2004	2000	24				
3	Same	Same	Jan 71	Feb 78	Same	Same	1994	Same	24				

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Oct 57	Located on top of control tower.	AN/GMQ-11	RO-2	N/A	
2	Jun 58	Located at approach zone runway 23, 500 ft W of runway.	Same	Same	13 ft	
3	Mar 59	Located 500 ft from centerline, 1000 ft in from end of runway 23/05.	Same	Same	Same	
4	Mar 60	Located 500 ft from centerline, 1500 ft from end of runway 23.	Same	Same	11 ft	
5	Jun 61	Located N of Base Operations across the runway complex.	Same	Same	13 ft	
6	Mar 62	Located 715 ft from centerline, 1810 ft from approach end ILS runway.	Same	Same	Same	
7	Mar 65	Located 1775 ft SW and 695 ft NW of end of runway 23.	T420/GMQ-11	RO-2	13 ft	

USAFETAC FORM NOV 73

0-19 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

CONTINUED ON REVERSE SIDE

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION			REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND
8	Oct 70	Located 600 ft NW of centerline, 2700 ft from end of runway 23.	GMQ-20	Same	Same
	Feb 78	Same	Same	Same	Same

## PART A

### WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with recip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse



Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/ETAC

## WEATHER CONDITIONS

14011 STATION T. R. R. C. J. A. S. PAIN/MADRID 9-78 YEARS JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREZZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02		10.4	.2	.5		11.2	11.9	3.9			15.8	930
	03-05		10.9	.2	.9		11.7	11.6	4.3			15.9	930
	06-08		9.4	.2	1.1		10.4	16.3	4.5			20.9	930
	09-11		6.8	.1	.8		7.6	17.2	7.8			25.0	929
	12-14		6.7		.6		7.3	9.9	5.8			15.7	930
	15-17		6.7		.5		9.2	7.6	5.5			13.1	930
	18-20		11.4		1.0		12.0	7.1	7.8			14.9	930
	21-23		10.8	.1	.6		11.5	10.2	4.3			14.5	930
TOTALS			9.4	.1	.9		10.1	11.5	5.5			17.0	7439

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

14011  
STATION

T. PREJUN A3 SPAIN/MADRID  
STATION NAME

19-75

YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBS TO VISION	TOTAL NO. OF OBS.
FEB	00-02		7.0				7.0	4.5	1.2			5.7	846
	03-05		9.5		.2		9.7	5.2	1.4			6.6	846
	06-08		10.6		.5		10.9	7.8	3.1			10.9	846
	09-11		9.6		.2		9.6	7.8	7.4			15.2	846
	12-14		4.5		.4		8.7	4.3	3.7			7.9	846
	15-17	.4	7.3		.4		7.6	1.5	1.7			3.2	846
	18-20	.4	5.8				5.8	1.3	1.5			2.8	846
	21-23		7.1				7.1	1.4	.7			2.1	846
TOTALS		.1	4.2		.2		8.3	4.2	2.6			6.8	6758

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

14011  
STATION

TURRETIA AP SPAIN/MADRID

68-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL Obs.
MAR	00-02		7.3		.3		7.6	1.8	.3			2.2	930
	03-05		7.3		.6		8.0	1.9	.4			2.4	930
	06-08		6.3		.6		7.0	5.9	3.8			9.7	930
	09-11		5.5		.8		6.2	4.5	5.6			11.1	930
	12-14	.3	6.2		.6		6.9	.6	2.3			2.9	930
	15-17	.5	5.8		.8		7.5	.3	.9			1.2	930
	18-20	.3	5.9		.3		8.3	.3	.4			.8	930
	21-23	.2	7.6		.2		8.1	.4	.4			.9	930
TOTALS		.2	6.9		.5		7.5	2.0	1.9			3.9	7440

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/ETAC

# WEATHER CONDITIONS

14011 STATION TORREJON AB SPAIN/PADRID YEARS 68-77 MONTH APR

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02	.4	7.2				7.2	.2	.5			.7	819
	03-05	.2	5.9				5.9	1.0	1.9			2.9	833
	06-08		6.2				6.2	4.1	6.7			10.8	899
	09-11		6.3				6.3	2.6	3.6			6.1	900
	12-14	.7	7.3			.2	7.6	.3	.4			.8	900
	15-17	1.3	8.2			.1	8.3		.1			.1	900
	18-20	1.2	7.0		.2		7.1	.2	.2			.4	900
	21-23	.1	7.0				7.0		.1			.1	900
TOTALS		.5	6.9		.0	.0	7.0	1.1	1.7			2.7	7051

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/TAC

# WEATHER CONDITIONS

14011 STATION TURKEY AR SPAIN/MADRID 68-77 YEARS MAY MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	.4	4.7				4.7						929
	03-05	.3	5.0				5.0	1.1	.6			1.7	929
	06-08	.1	5.9				5.9	2.8	4.2			7.0	930
	09-11		5.5				5.5	.6	2.0			2.8	929
	12-14	.8	6.8				6.8	.1	.1			.2	930
	15-17	2.2	7.3				7.3						930
	18-20	1.5	6.3		.1		6.5	.1	.2			.3	930
	21-23	.2	5.6				5.6						929
TOTALS		.4	5.9		.0		5.9	.6	.9			1.5	7436

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

14011 STATION 14011 TEREJON AB SPAIN/MADRID 08-77 YEARS MONTH JULY

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JULY	00-02	1.8	3.3				3.3	.2				.2	900
	03-05	.6	2.4				2.4	1.0	.9			1.9	900
	06-08	.1	2.1				2.1	3.2	2.9			6.1	900
	09-11	.3	3.0				3.0	1.1	1.3			2.4	900
	12-14	2.4	4.4				4.4	.2				.2	900
	15-17	4.4	5.8				5.8		.1			.1	900
	18-20	3.6	4.1				4.1						900
	21-23	1.2	4.3				4.4	.1			.1	.1	900
TOTALS		1.3	3.7			.0	3.7	.7	.7		.0	1.4	7200

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

14011 STATION TURREJON AB SPAIN/MADRID STATION NAME 08-77 YEARS JUL MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	1.5	1.5				1.5	.1				.1	930
	03-05	1.4	1.1				1.1		.4			.4	930
	06-08	1.0	.5				.5		1.5			1.5	929
	09-11	.6	.6			.1	.8		.6			.6	930
	12-14	.3	.2				.2						929
	15-17	1.1	1.5				1.5				.1	.1	930
	18-20	1.9	1.4				1.4						930
	21-23	2.9	2.8				2.8				.1	.1	930
TOTALS		1.3	1.2			.0	1.2	.0	.3		.0	.4	7438



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/IIAC

# WEATHER CONDITIONS

14011  
STATION

TURRENTS AP SPAIN/MADRID  
STATION NAME

08-77

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG.	00-02	1.0	.9				.9		.3			.3	930
	03-05	.5	.6				.6		.4			.4	930
	06-08	.4	1.5				1.5	1.0	2.4			3.3	930
	09-11	.3	1.1				1.1	.1	1.2			1.3	930
	12-14	1.6	1.2				1.2						930
	15-17	1.8	2.0				2.0						930
	18-20	1.7	1.9				1.9						930
	21-23	1.4	1.5				1.5						930
TOTALS		1.1	1.3				1.3	.1	.5			.7	7440

DATA PROCESSING SECTION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

14011 STATION

TURKEY, AP SPAIN/LACRILU  
STATION NAME

08-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORM	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02	.4	2.8				2.8	.3	.3			.7	900
	03-05	.6	2.7				2.7	.6	.9			1.4	900
	06-08	.4	3.9				3.9	3.0	3.2			6.2	900
	09-11	.2	3.3				3.3	1.0	2.7			3.7	900
	12-14	.7	2.7				2.7	.1	.2			.3	900
	15-17	1.4	2.2				2.2	.1				.1	900
	18-20	.7	1.8				1.8	.2				.2	900
	21-23	.4	2.0				2.0		.1			.1	900
TOTALS		.9	2.7				2.7	.7	.9			1.6	7200

DATA PROCESSING CENTER  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

14011 STATION TURKEY AB SPAIN/MADRID 68-77 YEARS OCT MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02		4.8				4.8	.6	.5			1.2	930
	03-05		5.7				5.7	1.9	.5		.1	2.6	930
	06-08	.1	4.9				4.9	5.3	3.8			9.0	930
	09-11		4.7				4.7	2.0	6.5			8.5	930
	12-14	.2	5.8				5.8	.1	.5			.6	930
	15-17	.6	5.2				5.2		.5			.5	930
	18-20	.3	6.0				6.0	.2	.9			1.1	930
	21-23	.2	6.0				6.0	.4	.1			.5	930
TOTALS		.2	5.4				5.4	1.3	1.7		.0	3.0	7440

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/IAC

# WEATHER CONDITIONS

14011 STATION TURKEY AIR SPAIN/AMFID 6-77 YEARS NOV MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02		5.7		.1		5.8	7.6	1.7			9.2	900
	03-05		7.3				7.3	9.6	2.1			11.7	899
	06-08		7.6				7.6	14.6	5.3			19.9	900
	09-11	.1	6.9			.1	7.0	13.0	10.3			23.4	899
	12-14		7.9		.1		8.0	6.0	6.1			12.1	900
	15-17	.4	6.4				8.4	3.1	6.1			9.2	900
	18-20		6.9				6.9	4.2	3.8			8.0	900
	21-23		6.4		.2		6.7	5.3	3.2			8.6	900
TOTALS		.1	7.1		.1	.0	7.2	7.9	4.8			12.8	7198

DATA PROCESSING GROUP  
USAF ETAC  
AIR WEATHER SERVICE/WWC

# WEATHER CONDITIONS

14011 STATION TURKEY AIR SPAIN/MADRID YEARS 1977 DEC MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02		3.4		.9		8.9	12.5	2.7			15.2	930
	03-05		7.6	.1	.9		8.8	11.8	2.2		.1	14.1	930
	06-08		10.0		.6		10.6	14.6	4.2			18.8	930
	09-11	.1	8.1		.1	.1	8.3	17.8	7.4			25.3	930
	12-14		8.1		.2		8.1	10.5	7.5			18.2	930
	15-17		8.4		.3		8.6	9.1	5.7			14.8	930
	18-20		4.6		.3		8.9	8.8	3.1			11.9	930
	21-23		9.5		.4		9.9	9.8	3.7			13.4	930
TOTALS		.1	8.6	.1	.5	.1	9.0	11.9	4.6		.0	16.5	7440

DATA PROCESSING CENTER  
USAF ETAC  
AIR WEATHER SERVICE/11AC

# WEATHER CONDITIONS

14011 STATION TORREJON DE SPAIN/MADRID YEARS 66-76 ALL MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		9.4	.1	.8		10.1	11.5	5.5			17.0	7439
FEB		.1	0.2		.2		8.3	4.2	2.6			6.8	6768
MAR		.2	6.9		.5		7.5	2.0	1.9			3.9	7440
APR		.5	6.9		.0	.0	7.0	1.1	1.7			2.7	7051
MAY		.8	5.9		.0		5.9	.6	.9			1.5	7436
JUN		1.8	3.7			.0	3.7	.7	.7		.0	1.4	7200
JUL		1.3	1.2			.0	1.2	.0	.3		.0	.4	7438
AUG		1.1	1.3				1.3	.1	.5			.7	7440
SEP		.5	2.7				2.7	.7	.9			1.6	7200
OCT		.2	5.4				5.4	1.3	1.7		.0	3.0	7440
NOV		.1	7.1		.1	.0	7.2	7.9	4.8			12.8	7198
DEC		.0	3.6	.0	.5	.0	9.0	11.0	4.6		.0	16.5	7440
TOTALS		.6	5.6	.0	.2	.0	5.8	3.5	2.2		.0	5.7	87490

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $\frac{5}{8}$  mile.

DATA PREPARED BY  
USAF ETAC  
AIR WEATHER SERVICE/TAC

XXWEATHER CONDITIONS  
XXXXXXXXXXXXXXXXXXXXXXX  
ATMOSPHERIC PHENOMENA

14011 STATION TAREJUA SPAIN/ADALC 57-76 YEARS ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	1.3	41.2	.8	4.5	.3	41.2	43.9	33.8	.2	54.7	651
FEB		1.7	42.1		4.6	1.0	43.8	24.8	20.9		36.7	592
MAR		2.4	35.8		2.1	.4	39.7	16.6	17.4		26.0	619
APR		6.2	35.8		.8	1.3	36.8	12.8	12.5		20.2	600
MAY		12.7	21.0			1.0	38.0	9.0	7.1		14.2	619
JUN		20.1	24.8			.3	34.8	6.5	6.3		10.3	600
JUL		12.4	16.5			.6	14.5	.3	2.6		2.9	620
AUG		10.0	13.5			.3	13.5	1.0	3.2		3.9	620
SEP		12.3	25.7			1.2	25.7	6.2	5.8		10.2	600
OCT		2.2	25.1		.2	.2	35.0	16.6	13.5		24.0	651
NOV		1.1	20.9		1.0	.5	40.5	31.2	26.7		42.0	629
DEC		.2	20.1	.6	4.2	.2	39.1	39.8	31.2		51.1	650
TOTALS		7.1	21.1	.1	1.4	.6	33.5	17.4	15.1	.0	24.7	7451



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

\*1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.

\*2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	" .00" equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	" .0" equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	" 0" equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

\* Values for means and standard deviations do not include measurements from incomplete months.

NOTES:

- (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945 at 0800LST  
 Jan 46-May 47 at 1230GMT  
 Jun 57-present at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52 at 0030GMT  
 Jul 52-May 57 at 1230GMT  
 Jun 57-present at 1200GMT

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

YEARS

PRECIP.	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4						
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	57.7	10.6	3.4	6.3	5.4	11.1	3.4	1.9	.2					31.6	648	1.66	5.20	TRACE	
FEB	54.7	9.6	4.4	7.9	5.2	9.3	5.9	2.7	.2					35.6	592	1.91	4.23	TRACE	
MAR	57.7	15.7	3.9	5.7	3.1	9.2	3.3	1.0	.5					26.6	612	1.43	3.53	TRACE	
APR	61.5	11.4	3.2	6.6	4.5	4.5	5.5	2.2	.5					27.1	595	1.71	3.75	.01	
MAY	60.2	12.7	3.1	7.0	4.4	6.8	3.7	1.8	.3					27.1	616	1.55	4.76	TRACE	
JUN	63.2	13.5	2.5	5.7	5.2	5.9	2.5	1.5						23.2	598	1.12	2.46	.26	
JUL	84.4	6.9	.8	1.8	2.1	2.4	1.0	.3	.3					8.7	620	.50	1.80	.00	
AUG	84.7	6.6	.6	2.4	1.6	1.9	1.3	.6	.2					8.7	620	.52	2.03	.00	
SEP	72.8	8.2	1.5	5.0	2.3	4.3	3.7	1.3	.8					19.0	600	1.34	4.07	TRACE	
OCT	65.6	8.0	1.1	6.3	4.9	6.3	4.7	2.5	.8					26.4	639	2.03	6.21	.00	
NOV	59.5	10.7	2.8	6.6	4.7	6.6	5.2	2.9	1.0					29.8	618	2.25	6.37	TRACE	
DEC	60.1	11.5	3.4	6.7	3.7	7.3	4.3	2.5	.6					28.5	646	1.86	5.58	TRACE	
ANNUAL	65.2	10.4	2.6	5.7	3.9	6.3	3.7	1.8	.4					24.4	7404	17.88			

## EXTREME VALUES PRECIPITATION

'FROM DAILY OBSERVATIONS')

57-73

STATION NAME

YEARS

24 PUGS AMOUNTS IN INCHES

[illegible]

\* (BASED ON LESS THAN FULL MONTHS)

# EXTREME VALUES

57-78

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

[illegible]

TELETYPE \* (CABLED) IN LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

FORM  
MIL 64

1 DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

14011 STATION TORREJON AR SPAIN/MADRID 57-78 YEARS

MONTHLY AMOUNTS (INCHES)																	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00		PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MEAN		GREATEST	LEAST	
												OVER 20.00	OVER 50.4							
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 120	AMTS	OBS.	MEAN	GREATEST	LEAST		
SNOW- DEPTH	NONE	TRACE	1	2	3	4	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120							
JAN	95.4	2.6	1.1	.3	.6									2.0	651	.5	2.8	.0		
FEB	95.4	3.0	.5	.5	.2	.3								1.5	593	.6	7.0	.0		
MAR	97.7	1.8	.2	.3										.5	620	.1	1.9	.0		
APR	99.3	.3	.3											.3	600	TRACE	.2	.0		
MAY	99.8	.2													620	TRACE	TRACE	.0		
JUN	100.0														600	.0	.0	.0		
JUL	100.0														620	.0	.0	.0		
AUG	100.0														620	.0	.0	.0		
SEP	100.0														600	.0	.0	.0		
OCT	100.0														650	.0	.0	.0		
NOV	99.0	1.0													630	TRACE	TRACE	.0		
DEC	95.7	2.6	.9	.5	.3									1.7	650	.4	3.1	.0		
ANNUAL	98.5	1.0	.2	.1	.1	.0								.5	7454	1.6				

DATA PROCESSING TRACCH  
USAF/ETAC/OL A  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

WINTERFALL

(FROM DAILY OBSERVATIONS)

14011 STATION TURRET AS SPAIN/MADRID 57-78 YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
57	TRACE	TRACE	TRACE	.1	.0	.0	.0	.0	.0	.0	TRACE*	.0	.1
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.0
59	2.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0
60	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
61	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
63	.0	3.1	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
65	TRACE	1.1	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
67	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
68	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.3	1.9
70	1.9	TRACE	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	2.0
71	2.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	.3
72	.3	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
73	.0	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
74	.0	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
75	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
76	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
77	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
78	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
MEAN	.43	.33	.07	.01	TRACE	.00	.00	.00	.00	.00	TRACE	.27	.87
S.D.	.793	.813	.291	.022	.000	.000	.000	.000	.000	.000	.000	.573	.975
TOTAL OBS.	651	593	620	600	620	600	620	620	600	650	630	650	7454

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

DATA PROCESSING CRASH  
USAF/ETAC/DL A  
AIR 'LATHER SERVICE/AC

XXXXXXXXXXXXXXXXXXXX  
EXTREME VALUES  
XXXXXXXXXXXXXXXXXXXX  
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

14011 TREFLE, AC SPAIN/VAD-10 57-73 YEARS  
STATION NAME

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
57	TRACE	TRACE	TRACE	.2	.0	.0	.0	.0	.0	.0	TRACE	.0	.2
58	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0
59	2.2	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.2
60	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
61	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1
62	.0	7.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.4	7.4
63	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0
64	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
65	TRACE	1.9	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	TRACE
66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
67	1.2	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
68	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.3	1.1
70	2.0	TRACE	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	3.1	5.1
71	2.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	3.9
72	.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
73	.0	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.1	.1
74	.0	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
75	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
76	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
77	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
78	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MEAN	.51	.36	.10	.01	TRACE	.00	.00	.00	.00	.00	TRACE	.35	1.44
S.D.	.720	1.593	.425	.045	.000	.000	.000	.000	.000	.000	.000	.815	1.992
TOTAL OBS.	451	593	620	600	620	600	620	620	600	650	630	650	7454

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 10-88-5 (OLA)



1 DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

14011 STATION TORREJON AR SPAIN/MADRID 57-78 YEARS

PRECIP. SNOWFALL SNOW- DEPTH	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)										
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST									
											TRACE	0.1-0.4							0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4
JAN	97.1	2.3	.2	.5										.6	651												
FEB	98.7	.2	.3	.5	.2	.2								1.2	593												
MAR	99.7	.3													620												
APR	100.0														600												
MAY	100.0														620												
JUN	100.0														600												
JUL	100.0														620												
AUG	100.0														620												
SEP	100.0														600												
OCT	100.0														650												
NOV	100.0														630												
DEC	99.4	.5	.2											.2	650												
ANNUAL	99.6	.3	.1	.1	.0	.0								.2	7454												

DATA PROCESSING DATA ON  
USAF/ETAC/OL A  
AIR "EATHER SERVICE" / AF

# EXTREME VALUES SNOW DEPTH

(FROM DAILY OBSERVATIONS)

14011 STATION

T. RAGAN, AS SPAIN/DAVID  
STATION NAME

57-78  
YEARS

## DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
57	TRACE									*		0*	0
58	TRACE											0	0
59	1											0	0
60	2											TRACE	1
61	3											0	2
62	4											0	0
63	4											0	0
64	4											0	4
65	4											0	0
66	4											0	0
67	4											0	0
68	4											0	0
69	TRACE											0	0
70	TRACE											0	TRACE
71	TRACE											0	1
72	TRACE											0	TRACE
73	0											0	0
74	0											0	0
75	0											0	0
76	0											0	0
77	0											0	0
78	2											0	0
MEAN	.2	.2	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5
S.D.	.425	.989	.000	.000	.000	.000	.000	.000	.000	.000	.000	.224	.999
TOTAL OBS.	451	593	620	600	620	600	620	620	600	650	630	650	7454

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88 (OIA)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 30% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\* Values for means and standard deviations do not include measurements from incomplete months.

DATA PROCESSING BRANCH  
USAF/ETAC/DLA  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

## SURFACE WINDS

(FROM DAILY OBSERVATIONS)

14011 T. KAEJER AR SPAIN/ADRIAL STATION NAME 57-78 YEARS

### DAILY PEAK GUSTS IN KNOTS

YEAR	MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
57														
58														
59														
60														
61														
62														
63														
64														
65														
66														
67														
68														
69														
70														
71														
72														
73														
74														
75														
76														
77														
78														
MEAN		27.2	26.4	26.1	23.7	22.6	22.2	22.1	25.1	32.3	34.6	36.1	37.4	48.4
S.D.		6.441	6.299	5.189	4.901	4.105	6.051	5.067	9.020	4.897	6.278	7.908	7.618	6.745
TOTAL OBS.		593	589	610	567	534	572	615	617	591	618	596	636	7241

\* (LAST) UN LESS THAN FULL MONTHS

USAF ETAC FORM 0-88-5 (OLA)

\* (LAST) UN LESS THAN FULL MONTHS AND +100 KNOTS

DATA PROCESSING PLANCH  
ETAC/USAF  
AIR WEATHER SERVICE/PAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 T. KREFT AB SPAIN/JANUARY 69-78 JAN MONTH  
0000-0200 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.7	.0	.5	.5	.3	.4						5.3	7.0
NNE	3.2	1.0	.0	.2								5.5	3.7
NE	4.4	3.3	.0	.4								8.9	4.0
ENE	3.7	1.0	.2	.2	.3							6.2	4.2
E	1.0	.8										1.7	3.6
ESE	.4	.1										.5	3.0
SE	.1	.1			.1	.2						.5	13.8
SSE	.2	.3	.1									.6	5.0
S	.3	1.4	1.0	.5	.1							3.9	6.9
SSW	.3	1.6	2.6	1.0	.2							6.2	7.6
SW	.0	1.8	2.7	1.0	.1							7.1	8.0
WSW	.0	1.6	1.0	1.3	.1							5.5	8.0
W	.5	1.0	1.0	.0	.2							3.3	7.8
WNW	.4	.2	.1	.1								.9	4.4
NW	.5	.1	.2		.1							1.0	5.4
NNW	.0	.3	.1	.2								1.7	6.5
VAECL	2.2	.3	1.4	1.0								5.7	7.3
JALM												35.4	
	23.5	16.6	13.2	9.1	1.5							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING SECTION  
STAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TUREJA AT SPAIN/PADRID STATION NAME 69-73 YEARS JAN MONTH 0300-0500 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	.6	.4	.3	.3	.2						4.2	7.8
NNE	4.1	1.2	.4	.3								6.5	4.0
NE	4.3	1.6	.5	.5								7.2	4.1
ENE	2.7	.9	.4	.3								4.5	4.6
E	1.7	.3	.1									2.6	3.0
ESE	.4											.4	1.8
SE	.2											.2	5.0
SSE	.4	.4	.1	.1	.1							1.2	6.2
S	1.1	1.5	.3	1.3								4.1	7.1
SSW	1.1	1.4	2.0	1.7	.1							6.9	8.2
SW	1.0	.8	1.7	1.7								5.4	7.9
WSW	.5	1.0	1.3	1.2								4.3	8.4
W	.6	.5	.3	.2	.1							2.9	8.1
WNW	.3	.2	.2	.2								1.0	6.7
NW	.3	.1	.1	.2	.1							.9	7.9
NNW	1.2	.1	.3	.3								1.9	4.6
VARBL	2.4	.9	1.6	1.6	.1							6.3	6.9
CALM												39.6	
	24.7	12.4	11.4	11.5	.9	.2						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011

TURREJA DE SPAIN/MADRID

STATION NAME

65-78

YEARS

JAN

MONTH

0600-0800  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.0	.3	.4	1.1	.2							4.6	6.2
NNE	3.5	1.3	.4									5.3	3.2
NE	4.3	1.6	.5	.4								7.0	3.9
ENE	3.2	.3	.4	.4	.2	.1						5.6	4.8
E	1.7	.4										2.2	2.8
ESE	.3											.5	2.4
SE	.3		.1									.4	3.3
SSE	.3			.1								.8	5.0
S	.7	1.2	.7	1.3	.2							4.3	7.8
SSW	1.0	2.7	2.0	1.1	.1							7.6	7.4
SW	.0	1.4	2.1	1.1	.1							5.2	7.8
WSW	1.4	.8	.3	1.4	.1	.1						4.5	8.0
W	.0	1.1	.3	.4								2.8	6.5
WNW	.2	.3	.6									1.2	6.5
NW	.0											.8	2.0
NNW	.4	.3	.3		.2							1.3	7.1
VARBL	1.3	1.0	1.1	1.2	.1							5.3	6.7
CALM												40.8	
	24.7	13.7	11.1	8.4	1.2	.2						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/HAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURKEY AD SPAIN/MAJID  
STATION NAME

62-78  
YEARS

JAN  
MONTH

0900-1100  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.3	.2	1.1	.4	.1						2.4	11.9
NNE	1.0	1.0	.2									3.0	3.2
NE	2.4	1.4	.3	.4								4.2	4.3
ENE	3.1	1.3	1.5	1.3	.2							8.1	6.1
E	2.2	1.0	.2	.1								3.8	3.4
ESE	1.3	.2	.1									1.6	3.0
SE	.4	.1										.5	2.2
SSE	1.4	.6	.1	.1								2.3	3.5
S	1.3	1.4	1.5	1.2								5.4	7.2
SSW	1.3	1.3	1.9	1.0	.4							7.5	7.9
SW	1.2	1.4	2.5	2.4	.2	.1						7.8	8.6
WSW	.4	1.2	1.0	1.9	.1							5.2	9.6
W	.3	.1	.6	1.3	.3							3.0	10.1
WNW	.2		.1	.9	.2							1.4	11.6
NW	.1		.2	.2	.1							.6	10.8
NNW	.2	.1	.1	.1								.5	7.0
VARBL	3.3	2.2	1.7	.9	.9							9.0	6.6
CALM												33.7	
	22.4	14.1	13.2	13.5	2.9	.2						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

929



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/1AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AIR SPAIN/MAUNDY STATION NAME YEARS 69-78 MONTH JAN 1200-1400 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.2	.3	.5	.6	.2						2.4	12.2
NNE	1.4	.6	.5	.1								2.7	4.6
NE	.2	.3	.6	.3								2.2	7.7
ENE	1.2	1.1	1.0	1.1	.4							5.8	7.3
E	1.4	.5	.2	.1								2.9	4.7
ESE	.7	.3										1.2	2.6
SE	.4	.3	.2									1.4	3.8
SSE	1.1	.1	.1									1.2	2.5
S	2.2	1.0	1.7	.4								6.0	5.9
SSW	4.4	1.5	1.3	1.4	.2							8.6	5.9
SW	2.1	2.5	2.2	4.4	1.2	.3						12.6	9.8
WSW	1.4	1.0	1.4	3.3	1.3	.1						9.5	10.2
W	1.2	.4	1.1	1.2	.5							4.4	8.9
WNW	.1		.4	.5	.4	.1						1.6	13.3
NW	.2	.2	.2	.2	.2							1.2	9.3
NNW	.2	.1	.1	.3	.1	.1						1.0	12.0
VARBL	5.9	3.3	2.4	2.2	1.0	.3						15.7	7.2
CALM												19.8	
	26.7	13.4	15.3	17.5	6.1	1.2						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING CENTER  
ETAC/USAF  
AIR WEATHER SERVICE/TAO

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY, AB SPAIN/MAJID 69-78 YEARS JAN NORTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.4	1.4	1.1	.2	.5						5.9	9.1
NNE	.7	.8	.2	.1								2.0	4.4
NE	1.0	.2	.2	.3		.1						2.4	7.0
ENE	.6	1.0	.2	1.4	.2							4.0	9.1
E	.2	.5	.2									2.2	5.0
ESE	.2	.1	.1									.9	3.0
SE	.2	.1	.1									.5	4.0
SSE	.1	.4	.1									.6	4.3
S	2.2	1.7	1.2	.5	.1							6.0	5.4
SSW	3.2	1.8	2.2	1.2	.1							9.2	6.3
SW	2.9	3.0	3.3	4.1	.5							14.3	8.3
WSW	1.9	1.3	2.4	2.5	.6							9.1	8.9
W	1.1	.5	1.2	1.5	.2							4.7	9.0
WNW	.1	.3	.5	.5	.1							1.8	10.6
NW	.2	.5	.2	.3								.9	11.5
NNW	.6	.5	.2	.3								1.8	6.4
VARBL	2.2	2.2	3.0	2.0	.9	.1						11.4	8.2
CALM												22.2	
	20.4	15.9	20.5	17.1	3.3	.5						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/140

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURKEY AIR SPAIN/DAVID

STATION NAME

69-78

YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.2	3.0	2.2	1.1		.3						11.8	5.4
NNE	2.7	1.7	.2	.1								4.7	3.4
NE	2.4	1.9	.3	.4								5.1	4.5
ENE	.5	1.2	.3	.6		.2						3.2	8.0
E	.6	.1	.4									1.2	4.4
ESE	.4		.1									.5	3.8
SE	.3	.1	.1									.5	3.4
SSE	.3	.6	.1									1.1	4.2
S	1.2	1.6	1.5	.3								4.9	6.3
SSW	.4	1.6	1.5	1.2	.1							5.2	8.1
SW	1.6	2.3	2.5	1.4	.1							8.3	7.5
WSW	.4	1.1	2.7	1.7	.1							5.0	9.1
W	.5	1.1	1.3	.2								3.4	6.0
WNW	.3		.3	.3								2.5	8.2
NW	1.0	.4	.3	.4	.1							2.9	5.5
NNW	1.4	1.0	.1		.2							2.7	4.6
VARBL	1.2	1.2	1.2	1.5	.4							6.1	7.8
CALM												29.8	
	22.8	19.1	15.9	10.4	1.1	.5						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING - NA, C, H  
ETAC/USAF  
AIR WEATHER SERVICE/TAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY, AB SPAIN/ADP/LL STATION NAME YEARS 69-78 JAN MONTH 2100-2300 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.4	1.2	1.1	.3		.2	.1					6.2	5.2
NNE	4.1	2.3	.6		.1							7.8	3.5
NE	4.1	2.7	1.4	.4	.1							8.7	4.5
ENE	2.5	1.4	.2		.5							4.7	5.1
E	.1	.5										1.3	3.3
ESE	.3			.1	.1							.6	7.2
SE	.2				.1							.3	8.3
SSE	.1	.4										.5	3.8
S	1.1	1.3	.3	1.6								4.7	6.4
SSW	1.2	1.4	2.1	1.7								6.3	7.7
SW	.6	1.0	2.0	1.6								5.3	8.4
WSW	.5	.9	1.3	1.6								4.8	8.7
W	1.0	1.0	1.1	.3								3.8	6.9
WNW	.1	.4	.3	.4								1.3	6.3
NW	.2	.1	.1									.4	4.8
NNW	.3	.9	.4	.1	.1							2.6	5.5
VARBL	2.4	1.2	.2	2.2	.1							6.7	7.2
CALM												34.0	
	24.4	11.2	12.7	10.2	1.2	.2	.1					100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING TRAINING  
ETAC/USAF  
AIR WEATHER SERVICE/NAF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION T R R E J T O A G SPAIN/PAERID 69-78 YEARS JAN MONTH

ALL WEATHER CLASS ALL HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.0	.0	.0	.3	.2	.0					5.4	7.1
NNE	2.0	1.2	.5	.1	.0							4.7	3.7
NE	2.2	1.7	.7	.4	.0	.0						5.7	4.5
NNE	2.4	1.2	.7	.7	.2	.0						5.3	6.0
E	1.3	.6	.2	.0	.0							2.2	3.8
ESE	.0	.1	.0	.0	.0							.8	3.3
SE	.4	.1	.1	.0	.0	.0						.6	5.1
SSE	.5	.4	.1	.1	.0							1.0	3.2
S	1.4	1.5	1.1	.0	.0							4.9	6.5
SSW	1.7	1.6	2.2	1.4	.2							7.2	7.3
SW	1.3	1.3	2.4	2.4	.3	.1						8.2	8.4
WSW	1.0	1.1	1.0	2.0	.3	.0						6.1	9.0
W	.0	.7	1.0	.0	.2							3.5	8.0
WNW	.3	.2	.4	.4	.1	.0						1.5	9.1
NW	.5	.1	.1	.2	.1							1.1	6.9
NNW	.7	.4	.2	.2	.1	.0						1.7	6.1
VARBL	2.1	1.5	1.7	1.7	.4	.1						8.3	7.3
CALM												31.9	
	22.0	15.3	14.4	12.5	2.3	.5	.0					100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

7439

DATA PROCESSING DIV, COM  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AIR SPAIN/MAJID STATION NAME 69-78 YEARS FEB 78  
CLASS ALL WEATHER 0000-0200 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	.9	.3	.1	.4							5.2	5.7
NNE	4.7	4.0	1.1									9.8	3.8
NE	2.7	3.2	1.2	.6								7.7	4.9
ENE	1.7	3.2	.2	.1								5.2	4.1
E	.2	.7	.1									1.8	3.7
ESE	.4	.1	.4									.8	5.3
SE	.2		.4									.6	6.0
SSE	1.1	.5	.4									1.9	3.8
S	.2	.7	1.5	.5								3.7	6.8
SSW	1.2	2.0	1.5	.2	.2							5.4	6.5
SW	1.1	1.1	2.0	.7	.2	.1						6.1	6.5
WSW	2.2	1.7	2.0	.6	.2							7.2	6.8
W	.2	.6	1.5	.2	.2							4.1	7.6
WNW	.4	.4	.6	.2								1.5	6.8
NW	.6	.1	.4	.1								1.2	5.7
NNW	1.3	.7	.1	.1								2.2	3.6
VARBL	4.2	.3	.1	2.0	.2							8.4	6.2
CALM												27.1	
	22.1	20.9	16.1	6.6	1.3	.1						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

846

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURRET AP SPAIN/LADRIU STATION NAME 69-78 YEARS FEB MONTH

0300-0500  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.2	2.0	.2	.4	.4	.1						6.3	5.1
NNE	3.3	1.6	.2									5.3	3.4
NE	3.4	2.7	1.1	.2	.1							7.6	4.5
ENE	3.2	2.0	.2	.4	.1							6.3	4.3
E	1.2	.7	.1									2.0	3.7
ESE	.1	.2										.4	3.7
SE	.2		.2									.5	5.0
SSE	.1	.6	.4	.2								1.3	6.9
S	.7	.8	1.4	.4								3.3	6.7
SSW	1.1	2.5	2.4	1.2								7.1	7.1
SW	.7	1.5	1.4	1.2	.1							5.3	7.8
WSW	.7	1.4	1.5	.7								4.7	7.2
W	.8	.5	1.3	.1								2.8	6.3
WNW	.6	.2	.2	.2	.2							1.8	7.7
NW	.7	.2	.2	.1								1.3	4.5
NNW	1.7	.4		.2								2.2	3.7
VARBL	5.0	1.2	1.2	1.7	.7							10.5	6.0
CALM												31.3	
	27.7	16.8	12.1	7.3	1.7	.1						100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

846

DATA PROCESSING UNIT  
ETAC/USAF  
AIR WEATHER SERVICE/ IAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AND SPAIN/PAID ID 69-78 YEARS FEB MONTH

0600-0800  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.9	1.4	.0	.2							6.4	6.3
NNE	4.0	2.1	.6	.2								7.4	3.8
NE	3.0	2.0	.7	.2	.1							6.9	4.2
ENE	3.1	2.2	.0	.1								6.0	4.0
E	2.0	.9	.2									3.2	3.4
ESE	.4		.1									.5	3.0
SE	.4											.2	2.0
SSE	.1	.2	.1	.2	.2							1.2	9.0
S	.4	2.1	1.0	.4	.2							4.6	7.3
SSW	.0	2.1	1.0	1.4								6.0	7.7
SW	1.3	1.7	2.0	1.0								7.3	7.8
WSW	.7	.2	1.1	.4	.4							3.4	7.5
W	1.1	.5	.0	.2								2.4	4.9
WNW	.0	.1	.1	.4								1.1	6.0
NW	.2	.4		.1								.7	5.2
NNW	1.0	.6	.2	.1								2.2	3.9
VARBL	3.0	1.3	.2	2.1	.4							7.6	6.9
CALM												32.9	
	25.2	19.3	12.0	8.4	1.5							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

846



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR LATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY, AS SPAIN/MADEID STATION NAME FEB MONTH 0900-1100 HOURS (L.S.T.)

YEARS

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.2	.2	1.7	.7	.1	.2					4.1	12.5
NNE	1.2	.9	.7	.2	.5							3.5	6.9
NE	1.2	1.2	.2	.4	.2	.1						4.4	6.1
ENE	3.1	2.0	1.3	.5								7.6	4.8
E	3.1	2.2	1.1	.2								6.6	4.2
ESE	1.1	.4										1.4	2.4
SE	.2	.1	.1		.2							1.4	5.2
SSE	.2	.2		.1	.1							1.1	6.2
S	3.1	1.4	.2	.4	.2							5.9	5.1
SSW	.2	2.0	.2	1.4		.1						7.3	8.1
SW	.7	1.5	2.7	2.1	.1							7.2	8.7
WSW	.7	.9	2.2	1.2	.6							6.4	9.7
W	.2	.7	1.1	1.1	.1							3.4	8.6
WNW	.2	.2	.4	.2	.1							1.9	7.3
NW	.1	.2		.1	.1							.6	8.8
NNW	.2	.2	.2		.2							1.1	9.0
VARBL	4.7	2.4	2.2	2.7	1.4	.2						13.9	7.9
CALM												22.1	
	23.3	18.0	17.2	13.4	4.7	.6	.2					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

846

DATA PROCESSING UNIT, C  
ETAC/USAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION T. RKEJN A1 SPAIN/CAADRID STATION NAME  
FEB MONTH  
1200-1400 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	1.0	1.7	2.1	0.1	0.1					7.1	14.1
NNE	0.4	0.0	1.1	0.0	0.2							3.3	9.1
NE	0.4	0.9	0.7	0.0	0.8							3.7	10.7
ENE	0.3	0.0	0.7	0.2	0.2							3.0	6.4
E	1.2	0.0	0.1									2.0	3.5
ESE	1.2	0.2	0.1	0.1								1.7	3.8
SE	0.3	0.1	0.2	0.1		0.2						1.7	7.0
SSE	0.7	0.3	0.3	0.4								2.4	5.9
S	3.4	1.7	0.0	0.2	0.2	0.4						6.7	5.7
SSW	2.0	2.5	1.0	1.2	0.1							7.9	6.1
SW	1.3	3.5	1.0	3.0	0.6	0.2						11.3	9.3
WSW	1.5	0.2	2.7	3.3	0.4	0.5						9.9	10.4
W	0.0	1.1	2.2	1.2	0.1							5.2	8.4
WNW	0.2	0.2	0.4	0.4	0.2							1.4	9.7
NW	0.4	0.2	0.4	0.2	0.2	0.2						1.7	10.9
NNW	0.1	0.1	0.3	0.2	0.2	0.2						1.2	3.3
VARBL	7.3	4.5	3.7	3.4	1.9	0.5	0.2					21.5	7.9
CALM												8.4	
	24.1	19.1	19.0	16.4	7.4	3.1	0.4					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

846

DATA PROCESSING KATON  
ETAC/USAF  
AIR WEATHER SERVICE/MAF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TUREJO, AB SPAIN/NAVEDA YEARS 69-78 FEB NORTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	.5	2.2	3.3	1.2	.7						3.2	12.6
NNE	1.1	1.1	.6	.4	.4							3.7	7.2
NE	.5	.7	.7	.2	.4							3.2	9.5
ENE	.2	.5	.3	.4								2.0	7.9
E	.2	.2	.1	.4								.8	6.7
ESE	.5	.1										.5	2.5
SF	.4	.2	.4	.2								1.2	6.8
SSE	.4	.7	1.7	.2								3.0	6.9
S	2.1	.3	1.7	.4	.1							5.1	5.8
SSW	1.3	2.8	1.4	1.2	.6	.1						8.4	7.7
SW	1.4	2.2	2.7	3.1	.6	.2						10.3	9.3
WSW	1.2	1.7	4.3	3.9	.5	.2						12.3	9.4
W	1.5	1.3	1.7	2.1	.1							6.7	8.5
WNW	.6	.7	.9	.4	.6	.1						3.7	10.1
NW	.4	.7		.1	.6							1.8	9.3
NNW	.1	.9	.7	.0	.6	.1						3.1	10.8
VARBL	5.3	3.8	2.5	3.7	1.2	.4	.2					17.0	8.0
CALM												6.2	
	14.7	19.1	22.0	22.2	6.7	1.9	.2					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

846

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AIR SPAIN/MADRID YEARS 69-78 FEB NORTH  
1800-2000 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.1	4.3	3.0	2.0	1.2	.4						13.2	8.8
NNE	1.3	2.5	2.1	.6	.1							6.7	6.2
NE	.7	1.4	.5	.1								2.8	5.1
ENE	.2	.3	.4	.4								1.8	6.7
E	.2	.4	.4									.9	5.3
ESE			.5	.1								.6	9.0
SE	.2	.1	.2									.6	4.8
SSE	.1	.6	.2									.9	5.5
S	.7	1.8	1.1	.4	.1							4.3	6.3
SSW	.2	3.1	1.2	1.1	.1							6.7	6.8
SW	1.7	2.0	2.0	1.5	.2	.1						8.2	7.7
WSW	2.0	2.3	1.0	1.0	.1	.1	.1					8.7	7.3
W	1.9	1.4	2.1	.0	.1	.1						6.4	6.9
WNW	1.0	1.5	.7	1.3	.1							5.4	6.7
NW	1.1	1.2	.0	.2								3.1	5.2
NNW	1.2	1.9	.0									4.4	4.2
VARBL	2.3	1.4	1.3	.4	.7	.2						7.3	7.9
CALM												17.8	
	19.5	27.0	20.0	11.5	2.8	.5	.1					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 846

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/AFAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION NAME TERRELL AFB STATION NAME 43-78 YEARS FEB MONTH 2100-2300 HOURS (L.S.T.)

ALL WEATHER CLASS

C. H. L. T. I. O. N

SPED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.0	1.9	1.5	.9	.2	.1						7.7	5.4
NNE	4.5	3.1	2.4	.7								11.2	5.0
NE	2.1	1.7	1.5	.8								5.9	5.6
ENE	.5	1.9	.7	.1	.1							3.7	5.4
E	.2	1.2	.1	.1								2.0	4.9
ESE	.3	.1	.2									.9	4.1
SE	.2	.4										.8	2.9
SSE	.4	.5										.8	4.1
S	1.5	1.6	1.7	.4								5.3	5.4
SSW	.7	2.4	2.2	.7	.1							5.9	6.9
SW	.4	4.0	2.2	.1								5.4	7.4
WSW	.6	1.2	2.1	1.1	.1	.2						5.4	8.8
W	1.3	.7	2.2	.9	.1	.1						5.1	7.4
WNW	.1	.9	.4	.4	.4							2.1	8.8
NW	1.1	.4	.2									1.7	3.9
NNW	.7	1.1	.4									2.0	4.5
VARBL	4.1	2.6	1.4	1.4	.4	.1	.1					10.5	6.2
CALM												23.4	
	23.2	24.2	18.9	7.1	1.4	.2	.1					100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 846

DATA PROCESSING CENTER  
ETAC/USAF  
AIR WEATHER SERVICE/PAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AF SPAIN/ALCANTARA STATION NAME 69-78 YEARS FEB MONTH ALL WEATHER CLASS ALL HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.4	1.4	1.5	.8	.2	.0					7.4	9.0
NNE	2.5	2.1	1.1	.4	.1							6.4	5.2
NE	1.7	1.7	.9	.5	.2	.0						5.3	5.8
ENE	1.6	1.6	.7	.3	.1							4.4	4.9
E	1.4	.9	.3	.1								2.4	4.1
ESE	.5	.1	.2									.8	4.0
SE	.5	.1	.2		.0	.0						.9	5.5
SSE	.4	.5	.4	.1	.0							1.6	6.1
S	1.6	1.4	1.5	.4	.1							4.9	6.0
SSW	1.2	2.4	1.5	1.1	.1	.0						6.9	7.1
SW	1.2	2.0	2.3	1.2	.2	.1						7.7	8.3
WSW	1.3	1.4	2.3	1.0	.3	.1	.0					7.3	8.6
W	1.1	.7	1.0	.6	.1	.0						4.5	7.5
WNW	.6	.6	.2	.3	.2	.0						2.4	8.0
NW	.0	.4	.2	.1	.1							1.5	6.6
NNW	.7	.7	.4	.1	.1							2.3	6.0
VARBL	4.7	2.2	1.6	2.2	.9	.2	.1					12.1	7.3
CALM												21.4	
	23.7	22.9	17.5	12.1	3.5	.9	.1					100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

6768

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/1AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON DE SPAIN/1ADND YEARS 68-77 MONTH MAR  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.3	1.5	1.2	1.1	.6							7.7	6.7
NNE	4.1	4.1	2.4	.5								11.1	5.0
NE	4.4	5.5	5.2	1.3	.1	.1						15.2	5.9
ENE	2.0	2.4	.6	.8	.1							6.6	5.1
E	1.0	1.5	.1									2.6	4.0
ESE	.1	.3	.1									.5	5.0
SE	.5	.1										.4	2.8
SSE	.1	.4	.1									1.1	3.9
S	.5	2.0	1.0	.1								3.7	5.6
SSW	.4	.8	1.0	.2								3.1	7.2
SW	.5	.8	1.5	.6								3.5	7.4
WSW	1.0	.2	1.2	1.1	.3							4.3	8.6
W	.5	.5	.6	.3	.1							2.6	6.5
WNW	.3	.5	.2	.3	.1							2.0	6.3
NW	.1	.2	.5	.2	.1							1.6	7.0
NNW	1.4	.8	.8									2.7	4.3
VARBL	3.5	1.3	1.1	1.1	.4							7.7	6.8
CALM												23.5	
	25.1	23.3	10.7	7.5	2.3	.1						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 930

83870

DATA PROCESSING SECTION  
ETAC/USAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AIR SPAIN/IADEID STATION NAME YEARS 6-77  
ALL WEATHER CLASS  
MAR NORTH  
0300-0500 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	2.0	1.7	1.1	.5							8.9	6.5
NNE	4.4	4.0	2.0	1.1								11.5	5.0
NE	4.4	4.6	2.0	1.3								13.1	5.4
ENE	3.3	2.6	1.0	.4								9.1	4.9
E	1.1	1.6	.1									2.7	3.8
ESE	.3	.1										.4	3.0
SE	.1				.2							.3	13.3
SSE	.1	.1	.1									.3	4.7
S	.3	1.2	1.0	.1								2.6	6.3
SSW	.3	1.0	1.1	.4								2.8	7.0
SW	.2	.5	1.3	.5	.1							3.0	8.5
WSW	.0	.1	1.2	1.2	.1							3.2	8.9
W	.4	.9	.1	.1								1.5	4.5
WNW	.5	.1	.2	.5	.1							1.6	8.1
NW	.3	.1	.2	.1								.8	6.1
NNW	1.1	1.1	.2	.2								2.6	4.5
VARBL	5.0	1.0	.9	.0	.6	.1						10.0	4.9
CALM												25.4	
	27.1	22.9	15.1	7.6	1.7	.1						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

929



DATA PROCESSING DATA  
ETAC/USAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURNER AFB SPAIN/AFRL

6-77

STATION NAME

YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.0	1.2	.5	.8							6.6	7.1
NNE	4.1	3.5	1.2	1.4								10.2	5.4
NE	5.5	4.4	2.2	.5								14.3	4.5
ENE	4.5	3.4	1.4	.5	.1							10.2	4.7
E	2.2	1.1	.3									3.5	3.5
ESE	.2	.1										.3	2.7
SE	.2	.2										.4	3.0
SSE	.3	.2		.1	.1							1.0	5.7
S	.2	1.1	.4									2.4	4.2
SSW	1.0	1.6	1.4	.5								4.3	6.3
SW	.3	1.2	1.4	.2	.1							3.5	7.8
WSW	.2	.2	1.3	.3		.1						2.4	9.5
W	.3	.1	.4	.2								1.2	8.2
WNW	.2	.2	.2	.1	.1							.6	9.3
NW	.4	.2	.3	.2								1.3	6.9
NNW	1.4	.5	.1									2.0	3.0
VARBL	5.5	1.5	1.2	.2	.3	.1						9.5	5.0
CALM												26.2	
	21.6	21.3	12.6	7.0	1.5	.2						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

930

DATA PRESENTED IN  
ETAC/USAF  
AIR WEATHER SERVICE/AC

1

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 STATION NAME TUPSEY AIR SPAIN/ADALY YEARS 50-77 MAX MONTH 0900-1100 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.5	1.1	1.7	1.4	1.3	1.1					5.1	11.0
NNE	1.1	1.4	1.4	1.4	1.5	1.2						4.1	9.8
NE	1.0	2.0	1.2	2.1	1.4							7.4	8.7
ENE	2.1	2.2	2.1	1.7	1.6	1.2						10.1	7.8
E	3.3	1.7	1.0	1.1								5.8	3.7
ESE	1.2	1.3	1.2									1.7	3.1
SE	1.0	1.3	1.1									1.4	3.0
SSE	1.3	1.4	1.1	1.2								1.9	5.8
S	2.2	1.3	1.0	1.2								4.6	4.3
SSW	1.3	2.9	1.9	1.5								7.0	6.2
SW	1.4	1.3	2.3	1.5	1.1							6.6	8.0
WSW	1.0	1.2	1.2	1.2	1.3							4.5	7.6
W	1.2	1.0	1.2	1.1	1.2							3.7	8.4
WNW	1.4	1.2	1.2	1.4		1.1						1.4	9.4
NW	1.1	1.2	1.2	1.1								1.9	8.6
NNW	1.2	1.2	1.1	1.1								1.6	5.7
VARBL	6.5	3.0	4.3	2.5	1.4	1.5						19.0	7.5
CALM												14.2	
	26.1	19.2	19.4	15.0	4.1	1.4	1.1					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSED BY  
ETAC/USAF  
AIR WEATHER SERVICE/ IAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AIR SPAIN/ALCAID STATION NAME YEARS 65-77 MONTH MAR  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.1	1.1	1.6	1.1	.4	.1					5.8	12.3
NNE	.5	.6	.9	1.1	.4	.1						3.8	9.7
NE	.4	.9	1.4	1.1	.3	.3						4.4	10.4
ENE	.4	.5	1.2	1.4	.9	.4						4.6	11.9
E	.3	1.1	.2	.1								2.3	4.6
ESE	.7	.4		.1								1.4	3.6
SE	.4	.3	.1	.4	.1							1.4	7.8
SSE	1.6	1.0	.6	.1								2.7	5.1
S	2.4	1.3	1.6	.3	.1							6.5	5.6
SSW	1.3	2.2	1.2	.3								6.1	5.9
SW	.6	2.2	2.3	2.6	.6							8.8	9.1
WSW	.8	1.2	1.6	2.3	.9							6.9	10.1
W	1.1	1.1	1.3	1.1	.2							4.7	8.0
WNW	.5	1.0	.4	1.4								3.3	8.4
NW	.4	.9	.3	.4	.1							2.2	6.9
NNW	.3	.9	.1	.2	.1							1.6	6.7
VARBL	6.0	6.5	6.6	4.6	1.8	.5	.1					28.5	8.3
CALM												5.0	
	17.2	23.5	23.7	19.7	6.7	2.2	.2					100.2	8.0

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/1AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011

STATION NAME  
T. RREJON AR SPAIN/IA0110

5-77

YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.M.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.0	1.7	3.3	1.4	.2	.1					9.2	12.9
NNE	.5	1.2	1.5	1.5	.4							5.4	9.4
NE	.3	.6	1.2	1.7	.3							4.2	10.3
ENE	.4	.4	1.5	.4	.2	.1						3.1	8.9
E	.6	.5	.5	.6	.1							2.2	6.3
ESE	.4	.2	.3	.5								1.6	5.8
SE	.5	.2	.2	.1	.2							1.3	6.9
SSE	.6	.6	.2	.2								1.8	5.2
S	1.0	1.3	1.5	.4								4.2	6.5
SSW	1.4	1.4	1.9	.5								5.4	6.4
SW	1.5	2.5	3.5	2.5	.3	.2						10.3	8.9
WSW	.5	2.2	2.0	3.9	.6							10.2	9.8
W	1.3	1.6	2.0	.5	.2							6.0	7.2
WNW	1.1	.9	.5	1.2	.5							4.3	8.6
NW	.3	.4	.2	.2	.1							1.6	6.6
NNW	.5	.0	.6	.4								2.3	6.6
VARBL	4.0	3.0	5.2	3.7	2.6	.3	.2					20.0	9.1
CALM												6.9	
	17.1	18.7	25.0	22.4	7.3	1.5	.3					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING RANGE  
ETAC/LSAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION T. RUEJ. A. SPAIN/CADRID YEARS 64-77 MAR MONTH  
1800-2000 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	3.3	2.3	4.1	1.7	.4						14.4	9.4
NNE	1.1	1.9	2.5	1.2								7.4	6.7
NE	2.2	1.7	2.4	1.2	.2	.1						7.7	7.1
ENE	1.2	1.1	1.2	.8	.1							4.3	6.8
E	.8	.0	.5	.1								2.0	5.4
ESE	.4	.4	.4									1.3	5.3
SE		.9	.1	.1								1.1	6.2
SSE	.2	.6	.9	.2								2.0	6.7
S	.5	1.4	1.1	.2								3.5	5.9
SSW	1.1	1.0	.8	.1								2.8	5.2
SW	1.6	2.3	2.6	1.5	.2							8.2	7.2
WSW	.2	2.8	2.4	1.3	.1							8.0	7.7
W	1.5	3.1	1.7	.4								7.2	5.3
WNW	.1	1.3	.2	.5	.1							3.0	6.7
NW	1.7	.0	.2									2.9	3.9
NNW	1.5	2.4	.7	.2	.1							5.2	5.8
VARBL	1.9	.4	2.0	2.1	.9							7.3	8.9
CALM												11.6	
	21.3	25.9	22.2	14.7	3.4	.2						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA FROM SURFACE  
 ETAC/USAF  
 AIR WEATHER SERVICE/IAF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

STATION 14011 T. P. R. E. J. S. PAIN/ALP. 10 MAR 77 2100-2300  
 MONTH  
 HOURS (L.S.T.)

ALL WEATHER  
 CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.2	2.9	6.0	1.0	.9							11.6	7.2
NNE	4.5	2.0	2.8	.0	.1							11.0	5.3
NE	2.3	3.7	4.1	2.0	.2							12.4	7.1
ENE	1.1	1.1	1.3	1.0								5.3	6.2
E	.1	1.5	.3									2.6	4.4
ESE	.4	.1										.5	2.8
SE	.4	.4	.1	.2								1.2	6.0
SSE	.4	.4	.4	.1								1.4	5.9
S	.0	1.1	1.3	.1								3.2	5.7
SSW	1.1	.9	1.2	.3								3.7	5.7
SW	1.1	1.2	1.1	.3	.1							4.0	6.7
WSW	1.1	1.0	1.7	.1	.5							5.5	7.7
W	1.0	.3	1.1	.4								2.8	6.5
WNW	.0	.5	.2	.0								2.4	7.2
NW	1.1	.5	.2	.1								1.8	4.5
NNW	1.0	.5	.4		.2							3.0	4.9
VARBL	3.5	1.0	1.3	1.0	.3							8.8	6.5
CALM												18.8	
	26.1	21.4	21.1	10.2	2.4							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING  
ETAC/USAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AR SPAIN/ADPFD STATION NAME 53-77 YEARS MAR MONTH ALL CLASS HOURS (L.R.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.0	1.9	1.6	2.1	.9	.2	.0					8.7	9.0
NNE	2.6	2.3	1.7	1.1	.2	.1						8.1	6.3
NE	2.5	2.9	2.4	1.4	.2	.1						9.8	6.6
ENE	2.2	1.6	1.5	.8	.3	.1						6.7	6.6
E	1.3	1.2	.5	.1	.0							3.0	4.3
ESE	.5	.3	.1	.1								1.0	4.2
SE	.4	.3	.1	.1	.1							.9	5.1
SSE	.0	.5	.3	.2	.0							1.5	5.5
S	1.1	1.4	1.1	.2	.0							3.8	5.6
SSW	1.1	1.5	1.4	.2	.2							4.4	6.2
SW	.5	1.5	2.1	1.3	.2	.1						6.0	8.1
WSW	.0	1.3	1.7	1.5	.4	.1						5.6	8.8
W	.3	1.1	1.1	.6	.1	.1						3.7	6.8
WNW	.0	.6	.4	.6	.1	.1						2.3	7.9
NW	.7	.4	.3	.2	.0							1.6	5.9
NNW	1.0	.9	.4	.2	.1							2.5	5.2
RBL	4.3	2.3	3.1	2.2	1.1	.2	.0					13.9	7.5
CALM												16.5	
	24.3	22.0	19.6	13.1	3.7	.1	.1					100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

7437

DATA PROCESSING AND CL.  
ETAC/USAF  
AIR WEATHER SERVICE/HAS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AIR SPAIN/ADRIU STATION NAME YEARS 60-77 MONTH APR  
0000-0200 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	4.4	2.4	2.0	.2	.1							8.8	4.9
NNE	3.4	3.3	2.7	.3								10.7	5.6
NE	3.2	3.9	5.3	2.4								15.5	6.8
ENE	2.2	2.4	1.2	.6	.1							6.8	5.8
E	.7	1.1	.4									2.3	4.7
ESE		.4										.4	4.0
SE	.1	.1	.1									.4	4.7
SSE	.1	.6	.2									1.0	5.1
S	.7	.9	2.3	.3	.1							4.5	7.4
SSW	.7	.9	1.7	.1								3.4	5.3
SW	1.3	1.0	.2	.5								3.1	5.4
WSW	.5	.9	.0		.1							2.4	5.5
W	1.0	.0	.4	.0	.1							3.3	6.0
WNW	.4		.4	.2	.1							1.1	8.7
NW	.3	.6	.2									1.3	4.5
NNW	1.2	.2	.2	.2								2.2	4.7
VARBL	6.2	2.7	1.6	1.2								12.0	4.6
CALM												20.8	
	23.2	22.5	20.3	7.6	.7							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

819



DATA PROCESSING UNIT  
ETAC/USAF  
AIR WEATHER SERVICE/NAO

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TUREJUN, SPAIN/ADNDID STATION NAME 65-77 YEARS APR MONTH 0300-0500 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.5	2.2	1.0	.2	.1							7.8	5.1
NNE	5.2	4.6	2.4	.1								13.0	4.9
NE	5.2	4.7	3.7	1.0								14.5	5.4
ENE	2.0	2.2	1.2	.2								6.5	4.9
E	1.3	1.0	.2									3.1	4.7
ESE	.4	.2										.6	3.2
SE	.2	.1										.6	2.6
SSE	.2	.1	.1									.5	4.5
S	.7	2.0	2.3	.1								5.2	6.1
SSW	.6	1.1	1.6	.2								3.5	6.4
SW	.0	.7	.5	.4								2.2	6.4
WSW	.0	.5	.4	.2								2.2	6.2
W	.0	.2	.2	.1	.1							1.6	5.9
WNW	.0	.4	.1	.1								1.3	2.9
NW	1.2	.0										1.8	3.8
NNW	1.7	.6	.2	.1								2.6	4.0
VARBL	5.6	1.9	1.1	.6								23.9	
CALM												100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

833

DATA PROCESSING MANUAL  
ETAC/USAF  
AIR WEATHER SERVICE/NAO

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY OF SPAIN/CAOELM YEARS APR MONTH

0600-0800  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.2	1.3	1.1	1.1	.4	.1						6.1	7.5
NNE	3.1	3.7	1.0	1.1	.1							8.9	5.3
NE	6.1	4.0	2.5	.5								13.8	4.9
ENE	4.2	3.9	2.5	.3	.1							11.0	5.1
E	2.6	2.1	.4									6.1	3.6
ESE	1.1	.4										1.6	3.1
SE	.1	.1	.1	.1	.1							.6	10.2
SSE	.7	.4	.4									1.3	3.8
S	.9	1.6	1.7	.1								4.1	6.1
SSW	.2	1.8	2.1	.3								4.7	7.2
SW	.0	.6	1.1	.1								3.4	7.7
WSW	.3	.3	.1	.4								1.2	7.0
W	.2	.4	.1	.1								.9	5.6
WNW	.2		.2									.7	5.0
NW	.4		.1	.1								.7	4.8
NNW	1.1	.2	.1	.2								2.2	4.3
VARBL	4.1	2.3	1.2	.4								9.8	4.7
CALM												22.9	
	29.0	24.1	15.2	7.1	.8	.1						100.0	4.2

TOTAL: NUMBER OF OBSERVATIONS

899

DATA PROCESSING  
ETAC/LSAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 T. BUREAU OF SPAIN/PALEIL STATION NAME YEARS 40-77 MONTH APR

0900-1100  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.3	.4	2.8	.7	.1						4.8	12.8
NNE	1.1	1.1	.7	.3								3.6	6.8
NE	1.2	1.0	1.1	1.7								5.0	7.9
ENE	2.0	1.7	2.7	1.7	.1	.3						8.4	7.9
E	2.2	2.7	1.7	.7	.1							7.3	5.7
ESE	1.3	1.0										2.3	3.0
SE	1.4	.6										2.2	2.9
SSE	1.1	.3	.7	.4								2.6	6.2
S	2.2	1.3	1.1	.2	.1							5.0	5.2
SSW	1.3	1.3	2.6	1.1								6.9	7.2
SW	1.7	1.4	1.6	1.7	.7							7.2	8.3
WSW	.7	.7	.7	.4	.1							2.6	7.2
W	.3	.7	.2	.3								1.9	5.9
WNW	.7	.3	.1									1.1	3.3
NW	.1		.1	.1								.3	7.0
NNW		.2	.1	.4	.2							1.2	10.3
VARBL	9.0	6.0	6.6	4.2	.4	.1						28.9	6.4
CALM												8.7	
	27.0	21.4	22.5	16.6	2.4	.5						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
AFMPC/USAF  
AIR WEATHER SERVICE/AFMPC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON, AP SPAIN/ADKID

STATION NAME

57 77

YEARS

APR  
MONTH

1200-1400  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.6	.8	2.2	.8	.2						4.9	12.0
NNE	.2	.8	.7	.2								2.8	7.7
NE	.2	.7	1.7	1.7	.1							4.4	9.5
ENE	.7	.8	1.2	.2	.1							3.1	7.7
E	.6	1.2	.8	.2								2.8	6.0
ESE	.6	1.1	.2									1.9	4.3
SE	.2	.4	.2	.1								1.1	5.5
SSE	.4	.4	.8	.1								1.8	6.6
S	1.0	1.6	1.5	.3	.3							5.7	6.9
SSW	1.4	2.0	2.2	1.7	.3							7.1	7.3
SW	.2	2.8	3.3	1.8	.8	.1						9.6	9.2
WSW	.2	.4	2.4	1.3	.4							5.5	9.4
W	.7	1.6	.8	1.1								4.1	7.8
WNW	.3	.7	.2	.4								1.9	6.2
NW	.4	.4	.2	.1								1.2	5.2
NNW	.2	.2	.3	.7	.3	.1						1.9	12.4
VARBL	6.6	9.3	12.9	7.9	1.0	.2						37.4	7.9
CALM												2.9	
	19.7	24.6	30.5	20.1	4.2	.7	.1					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

899

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/ETAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TUREJ, SPAIN/ACRID STATION NAME 68-77 YEARS APR MONTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.2	1.6	3.3	1.7							9.9	10.5
NNE	.2	.6	1.4	.3	.3							2.9	8.8
NE	.2	1.6	1.4	1.2	.2	.1						4.8	9.1
ENE	.2	.3	1.0	.5	.2							3.1	8.3
E	1.0	1.0	.3	.1								2.4	4.5
ESE	.4	.3										.8	3.0
SE	.4	.1	.2	.1								1.0	6.1
SSE	.2	.4	.1	.1								.9	6.3
S	.3	1.4	.6	.3								3.1	7.0
SSW	.7	2.0	1.7	1.4	.2	.1						6.1	8.2
SW	.7	1.9	3.7	3.0	.2	.2						9.7	9.3
WSW	.5	1.6	1.6	1.0	.7	.2						6.9	9.2
W	.1	1.6	2.2	1.3	.4							6.6	8.7
WNW	.4	.6	.3	.3								2.9	8.1
NW	.7	.4	.7	1.0								2.8	8.2
NNW	.3	.3	.7	1.0	.6	.1						2.9	12.2
VARBL	4.4	6.1	10.4	7.7	1.1	.3						30.1	8.5
CALM												3.2	
	12.3	23.6	29.1	24.4	5.7	1.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING MANAGER  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION T. PRUEJTO AP SPAIN/ADAPALU STATION NAME YEARS MONTH APR 1800-2000 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	3.0	4.2	5.4	.7							16.1	9.2
NNE	1.2	1.3	2.5	1.7	.3							6.9	8.0
NE	.4	1.6	2.4	1.1	.3							5.9	8.6
ENE	.7	1.2	1.1	1.2		.1						4.7	8.3
E	1.0	1.1	.2									2.4	4.1
ESE	.2	.4	.2									1.2	4.4
SE	.1	.6	.1									.8	5.4
SSE	.4	.3	.1	.1								1.0	5.1
S	.2	1.1	1.2	.3								2.9	7.2
SSW	.7	2.2	1.0	.7	.1							5.0	6.8
SW	1.2	3.3	2.0	.7	.1							7.9	6.5
WSW	1.0	4.2	2.9	.4	.7							10.1	6.9
W	2.3	1.6	1.2	.4								6.3	5.8
WNW	.7	1.9	.7	.5								4.3	6.8
NW	1.1	.3	.6	.0								3.2	6.7
NNW	.3	2.2	1.1	.4	.3							5.1	7.0
VARBL	2.7	1.2	2.3	2.4	.4							9.1	6.0
CALM												7.0	
	10.2	23.1	20.0	17.4	3.0	.2						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

200

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TIREJA AB SPAIN/IAADID STATION NAME YEARS 40-77 APR MONTH

2100-2200  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	2.8	3.1	1.0	.1							11.6	6.0
NNE	2.0	3.0	3.0	1.1	.3							11.6	6.5
NE	2.0	3.6	3.1	2.2	.4							11.9	7.2
ENE	1.4	1.9	1.0	1.0								6.1	6.5
E	1.0	.9	.3									2.2	3.9
ESE	.1	.6	.2	.1								1.0	6.3
SE	.2	.1	.1	.1								.4	7.3
SSE	.4	.4	.7	.1								1.7	5.9
S	1.2	.9	1.8	.2	.1							4.2	6.1
SSW	.7	1.0	.9	.2								2.8	6.1
SW	.3	1.2	1.1	.6								3.8	6.4
WSW	.7	.7	1.3	.7								3.3	7.6
W	1.3	1.4	1.4	.4								5.1	5.3
WNW	1.1	.9	.6	.2								2.8	5.2
NW	.4	.3	.3	.1	.1							1.3	6.6
NNW	1.7	1.1	.5	.3	.1							3.8	5.4
VARBL	3.2	2.0	2.0	1.3	.1							9.2	5.7
CALM												17.2	
	24.9	23.4	22.3	10.2	1.3							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/AF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TUPKEJ, AP SPAIN/MAJID 63-77 YEARS MONTH APR

ALL WEATHER CLASS HOURS (U.S.T.) ALL

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.1	1.0	2.0	2.2	.6	.1						8.8	8.2
NNE	2.1	2.4	1.0	.5	.1							7.4	6.2
NE	2.4	2.6	2.7	1.5	.1							9.4	6.8
ENE	1.0	1.3	1.5	.7	.1	.1						6.2	6.5
E	1.4	1.4	.0	.1	.0							3.6	4.7
ESE	.3	.6	.1	.0								1.2	3.8
SE	.4	.3	.1	.1	.0							.9	5.0
SSE	.2	.4	.4	.1								1.3	5.6
S	1.1	1.3	1.6	.3	.1							4.3	6.4
SSW	.3	1.0	1.0	.7	.1	.1						5.0	7.1
SW	1.1	1.6	1.0	1.2	.2	.1	.0					5.9	7.9
WSW	.0	1.2	1.3	.0	.3	.0						4.3	7.7
W	1.1	1.1	.5	.3	.1							3.7	6.7
WNW	.6	.6	.4	.4	.0							2.0	6.4
NW	.0	.4	.3	.3	.0							1.6	6.0
NNW	.5	.7	.5	.4	.2	.0						2.8	7.2
VARBL	5.4	4.0	5.2	3.3	.4	.1						18.4	6.9
CALM												13.1	
	13.6	23.9	23.0	13.7	2.4	.3	.0					100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

7050



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AIR SPAIN/MAJID STATION NAME YEARS 48-77 MONTH MAY

0000-0200  
HOURS (L.S.T.)

ALL WEATHER  
CLAS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.9	1.7	1.1	.1	.1	.1						9.5	4.3
NNE	5.7	4.4	1.6	.2		.1						12.3	4.3
NE	4.3	4.4	3.7	.1								13.1	5.4
ENE	1.5	2.3	.5	.1								4.4	4.5
E	1.5	1.0	.2									2.7	3.5
ESE	.5	.4	.1									1.1	3.4
SE	.6	.6	.1	.1								.9	6.1
SSE	.6	.6	.2	.2								1.9	5.7
S	1.2	1.5	1.2	.6								4.5	6.4
SSW	1.2	1.3	1.7	.3	.2							5.2	7.2
SW	.7	2.3	.5	.2								3.9	5.2
WSW	.3	.6	.6									2.2	4.4
W	1.3	.3	.6	.3								2.6	5.5
WNW	.5	.2	.2	.1								1.1	5.3
NW	1.6		.1									1.7	2.4
NNW	3.2	1.4										4.7	3.0
VARBL	3.3	1.4	1.6	.3								6.8	4.8
CALM												21.5	
	74.9	24.7	13.9	4.2	.6	.2						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING CENTER  
ETAC/USAF  
AIR WEATHER SERVICE/ AF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY, AN SPAIN/HAERID STATION NAME MAY MONTH

0300-0500  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.6	2.3	1.1	.0	.2							9.4	4.5
NNE	6.7	3.3	1.3	.0								12.0	3.9
NE	5.6	2.9	1.3	.3								10.3	4.0
ENE	3.3	3.2	.5	.1								7.3	3.8
E	1.7	1.1	.1									2.9	3.5
ESE	.5	.5										.9	3.6
SE	.2	.1	.1	.1								.5	5.6
SSE	.4	.3	.1	.1								1.0	4.4
S	1.1	2.0	1.0	.2								5.2	6.0
SSW	.3	1.0	1.0									4.3	5.6
SW	.0	1.1	1.0	.1								2.8	6.1
WSW	.5	1.1	.4	.1								2.2	4.5
W	.0	.5	.4	.1								1.7	5.1
WNW	.5	.1	.5									1.0	4.2
NW	.7	.1		.4								1.2	4.2
NNW	2.0	1.0										3.6	2.9
VARBL	3.9	1.8	.6	.5								6.0	4.3
CALM												26.9	
	75.3	23.4	10.9	3.2	.2							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

928

DATA PROCESSING  
ETAC/USA  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY, SPAIN/ADALD STATION NAME MAY MONTH 1977 YEARS

0600-0800  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.0	0.1	0.0	1.0	0.2	0.1						2.9	10.1
NNE	4.4	1.2	0.0	0.0								7.1	4.3
NE	6.2	2.4	1.0	0.0	0.2							11.0	4.5
ENE	0.2	4.1	1.0	0.0								14.2	3.9
E	3.7	1.0	0.0	0.2								6.0	3.4
ESE	1.0	0.1	0.2									1.3	3.3
SE	0.0	0.4										1.2	3.3
SSE	0.0	0.4	0.0	0.0								1.8	5.8
S	1.0	2.2	1.0	1.0								6.5	6.7
SSW	1.2	2.4	3.1	0.0								7.3	6.6
SW	0.6	1.2	1.0	0.2								3.5	6.2
WSW	0.0	0.4	0.4	0.4								1.8	5.5
W	0.2	0.2	0.1	0.1								0.6	5.8
WNW	0.0	0.1	0.0		0.1							1.3	6.0
NW	0.2	0.1	0.1									0.4	5.0
NNW	0.4	0.1										0.5	2.6
VARBL	5.4	2.2	2.4	1.7								11.4	5.7
CALM												21.1	
	36.0	19.4	14.9	7.3	0.5	0.1						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

930

DATA PREPARED BY  
ETAC/USAF  
AIR WEATHER SERVICE/14011

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TARRAGONA, SPAIN/ADULTO STATION NAME YEARS 60-77 MONTH MAY  
CLASS ALL WEATHER HOURS (L.S.T.) 0900-1100

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.4		1.2	.4							3.6	11.4
NNE	.1	.9	.2	.5	.2		.2					3.2	6.7
NE	.2	1.4	1.2	.7	.5	.2						4.6	8.7
ENE	1.4	1.0	1.4	.6		.1						4.6	7.2
E	2.2	2.6	.2									5.5	4.1
ESE	1.2	1.0	.4									2.7	4.0
SE	1.2	.4	.1	.2								2.3	3.8
SSE	1.1	.5	.2	.1								2.9	3.6
S	3.7	2.4	1.1	.4	.1							7.6	4.8
SSW	1.2	3.8	3.0	2.0	.2							11.0	7.3
SW	1.2	2.2	2.5	2.5	.1							8.4	8.3
WSW	.2	.4	.5	.1	.1							2.9	7.7
W	1.1	1.1	.9	.2								3.7	6.6
WNW	.1	.2	.2	.5	.1							1.4	3.9
NW	.2	.1	.2									.6	6.2
NNW	.4	.1	.2	.1								.9	6.0
VARBL	2.1	6.2	4.2	5.1	.6							28.1	6.9
CALM												6.0	
	20.6	24.6	22.1	16.4	2.3	.3	.2					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 T REJUN AB SPAIN/1-AD, 10 STATION NAME YEARS 63-77 MONTH MAY

1200-1400  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	1.0	.0	1.0	.2	.1						3.4	9.3
NNE	.4	.9	.5	.6	.1	.4	.1					3.1	10.3
NE	.3	.5	.4	.2	.4	.2						2.5	10.1
ENE	.5	.8	.3	.4								2.6	7.0
E	.0	1.4	.3	.3								3.3	6.0
ESE	.5	.2	.4									1.5	4.4
SE	.1	.6	.4									1.2	6.0
SSE	.1	.0	.1									1.4	4.1
S	1.7	2.5	1.4	.0	.1							6.5	6.1
SSW	.2	2.7	1.0	2.0	.4							7.5	8.8
SW	.5	2.2	2.0	3.1	.5	.1						9.6	9.4
WSW	.4	2.0	1.5	2.7	.1	.1						6.9	9.4
W	.3	1.8	.0	2.1								4.9	8.7
WNW	.4	1.0	.0	.4								2.5	6.9
NW	.2	.4	.3									1.1	5.3
NNW	.3	.3	.3	.2	.3							1.2	10.7
VARL	5.2	9.0	13.2	8.5	1.7							39.5	8.3
CALM												1.4	
	14.7	28.1	27.6	23.0	4.0	.5	.1					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING DATA CL  
ETAC/USAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TAFELU AS SPAIN/MADRID STATION NAME YEARS 68-77 MAY NORTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	.6	1.1	1.5	.2	.2						4.8	10.4
NNE	.3	.9	1.1	.6	.4							3.3	9.6
NE	.4	.0	.4	.2	.5							2.3	9.4
ENE	.4	1.1	.0	.5	.1							2.9	7.7
E	.2	.6	.4	.2								1.6	6.9
ESE	.2	.5	.3	.1								1.2	6.4
SE		.8	.3									1.1	5.9
SSE	.0	.6	.4	.1								1.9	5.2
S	1.5	1.8	.7	1.3	.2							5.7	7.2
SSW	1.2	1.4	1.5	2.3	.3							6.7	8.9
SW	.4	3.0	3.1	4.4	.1							11.1	9.3
WSW	1.1	2.8	2.3	2.3	.2							9.3	8.6
W	1.5	1.6	2.0	1.1	.2							6.7	7.2
WNW	.3	.2	1.1	1.1	.4							3.4	9.8
NW	.3	.3	.0	.4								2.0	6.9
NNW	.1	.8	.7	.6								2.4	8.0
VARBL	3.4	7.0	11.7	7.1	.9							30.1	8.3
CALM												3.4	
	12.2	25.3	29.1	25.1	3.7	.2						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TLRKEUN A SPAIN/ADP-10 STATION NAME 60-77 YEARS MAY MONTH 1800-2000 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	1.4	2.6	2.4	.6							9.0	8.9
NNE	1.1	1.6	1.2	1.6	.4							5.9	8.5
NE	1.0	.6	1.4	.9								3.9	7.1
ENE	.6	1.2	1.0	.6								4.3	7.5
E	.2	1.2	.2	.2								2.2	6.1
ESE	.3	.4	.4									1.2	5.5
SE	.2	.8	.3	.2								2.2	5.2
SSE	.4	.6	.2	.3								1.6	6.4
S	.6	2.3	1.3	.6	.1							5.6	7.4
SSW	.3	1.6	1.7	.9								4.5	7.7
SW	1.3	3.7	3.4	1.1								9.5	6.7
WSW	2.5	3.1	3.1	1.2								9.5	6.5
W	2.3	2.7	2.7	1.1	.2							8.8	6.5
WNW	1.1	.9	1.5	1.1								4.5	7.3
NW	.6	1.6	.6	.1								3.1	5.7
NNW	1.7	1.2	.5	.6								4.4	5.6
VARBL	3.0	1.6	2.3	2.0	.3	.1						10.3	7.8
CALM												9.6	
	13.9	27.0	26.5	13.6	1.7	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING CENTER  
ETAC/USAF  
AIR WEATHER SERVICE/NAF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AIR SPAIN/ADALD STATION NAME 50-77 YEARS MAY MONTH 2100-2200 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	4.2	3.3	2.3	.1	.1							10.7	5.2
NNE	3.1	4.0	3.1	.4								12.1	5.3
NE	1.7	3.3	1.7	1.4								8.2	6.4
ENE	1.2	1.6	1.2	.1								5.2	6.5
E	1.1	1.3	.2	.1								2.7	4.3
ESE	.5	.4	.2									1.2	3.9
SE	.3	.2	.2	.1								.9	5.4
SSE	.9	.9	.5	.5								1.9	8.4
S	1.0	1.4	1.0	.3	.1							4.4	6.6
SSW	.6	2.3	2.0									5.7	6.5
SW	1.2	1.8	1.0	.2								4.2	5.2
WSW	.9	1.4	.6	.5								3.4	6.1
W	1.9	.2	.2	.1								4.0	5.8
WNW	1.4	.5	.4	.4								2.3	5.0
NW	.7	.0	.1									1.7	3.4
NNW	2.2	.9	.2	.1								3.3	3.5
VARBL	5.0	1.1	1.7	1.3	.2							9.3	5.5
CALM												18.3	
	27.5	26.7	19.2	7.0	.4	.1						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 928



DATA PROCESSING SECTION  
ETAC/USAF  
AIR WEATHER SERVICE, WAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TUREJUN, AD SPAIN/ADADU MAY MONTH 5877 YEARS

ALL WEATHER CLASS HOURS (L.S.T.) ALL

CONDITION

SPEED (KNTS) DIR.	1-3	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.4	1.4	1.2	1.2	.3	.1						6.7	7.0
NNE	2.3	2.2	1.3	.7	.1	.1	.0					7.4	5.7
NE	2.0	2.0	.9	.7	.2	.1						7.0	5.9
ENE	2.2	1.9	1.1	.2	.0	.0						5.7	5.3
E	1.4	1.4	.4	.1								3.4	4.4
ESE	.0	.5	.3	.3								1.4	4.3
SE	.5	.5	.2	.4								1.3	4.9
SSE	.7	.5	.9	.2								1.8	5.4
S	1.2	2.0	1.5	.7	.1	.1						5.7	6.3
SSW	1.0	2.2	2.2	1.1	.1	.1						6.5	7.4
SW	.9	2.2	2.0	1.5	.1	.1						6.6	7.7
WSW	.5	1.5	1.2	1.1	.1	.0						4.8	7.3
W	1.1	1.2	1.0	.7	.1	.1						4.1	6.7
WNW	.6	.3	.6	.5	.1							2.2	7.2
NW	.7	.4	.2	.1								1.3	4.9
NNW	1.0	.7	.3	.2	.0							2.6	4.7
VARBL	4.6	3.0	5.2	3.5	.5	.0						17.8	7.2
CALM												13.5	
	75.1	24.9	26.0	12.1	1.7	.2	.0					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 7433

DATA PROCESSING CENTER  
ETAC/USAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

T. REEFUT AD SPAIN/ADRIU  
STATION NAME

60-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	1.6	.1									7.6	2.7
NNE	3.3	3.0	2.4	.5								12.9	4.3
NE	4.1	5.8	5.6	.2								14.0	5.3
ENE	2.2	3.1	1.9	.4								9.3	4.8
E	1.2	1.0	.2									3.9	3.7
ESE	.3	.7	.1									1.1	4.5
SE	.3	.2	.7									1.2	5.5
SSE	.7	.6	.4	.1	.1							1.9	6.2
S	.2	1.6	.4	.1								3.0	4.5
SSW	.2	1.3	1.1									3.3	5.3
SW	.3	1.0	.6	.3								2.4	6.2
WSW	.7	.7	.2	.5								2.1	6.5
W	.2	.4	.4									1.2	5.2
WNW	.1			.1								.2	6.5
NW	.2	.2	.1									1.2	3.2
NNW	1.6	.2										1.8	2.4
VARBL	4.5	1.7	1.2	.4								8.9	4.2
CALM												23.9	
	24.0	24.3	14.7	3.1	.1							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING RANGE  
ETAC/SAE  
AIR WEATHER SERVICE/TAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURKEY AIR SPAIN/ADRID  
STATION NAME

6-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.0	1.1	.1									6.2	2.7
NNE	7.7	2.8	1.1	.2								11.8	3.5
NE	8.0	4.5	3.7	.1								16.9	4.7
ENE	5.0	2.8	1.4									9.8	3.8
E	2.2	1.2	.2									3.7	3.4
ESE	.2											.3	2.7
SE		.2										.2	5.0
SSE	.1	.6	.1	.1	.1							1.0	7.4
S	.6	1.0	.7									2.4	5.2
SSW	.7	1.0	.9	.2								3.6	5.8
SW	.6	.8	.6	.1								2.2	6.1
WSW	.4	.2	.1	.3								1.1	6.9
W	.2	.2	.1	.2								.8	6.4
WNW	.2											.2	2.5
NW	.7	.2										.9	2.6
NNW	1.0	.1										1.9	2.3
VARBL	2.2	1.6	.6									5.2	3.6
CALM												31.6	
	27.2	15.0	10.0	2.1	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

898

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/11AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 STATION NAME TURKEY WOOD SPAIN/MAJORIO MONTH JULY YEAR 63-77  
CLASS ALL WEATHER HOURS (L.S.T.) 0600-0800

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 35	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.3										1.9	1.9
NNE	2.0	.9	.2									4.7	3.6
NE	2.2	2.1	2.2	1.7	.2							11.4	6.0
ENE	3.0	4.4	3.1	.7								17.0	4.5
E	7.4	3.6	.7	.2								11.8	3.3
ESE	2.3	.6										2.9	2.7
SE	.7	.3										1.2	2.6
SSE	.2	.7	.3	.2								1.4	6.8
S	.4	1.2	.9									2.2	5.2
SSW	1.1	1.9	1.5	.2								5.1	5.9
SW	.7	1.4	.7	.1								3.0	6.0
WSW	1.1	.3	.4	.1								2.0	4.6
W	.2		.1	.2								.6	7.8
WNW	.1			.1								.2	7.5
NW	.2											.2	2.0
NNW	.8	.1										.9	2.4
VARBL	9.9	2.1	4.7	1.2								14.0	5.5
CALM												19.4	
	29.5	20.0	15.6	4.2	.3							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/PAF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AIR SPAIN/PAFADID YEARS 68-77 MONTH JUN  
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.3										1.1	3.2
NNE	1.2	1.0	.6	.4								3.1	5.0
NE	.4	1.4	1.4	1.4								4.8	8.4
ENE	.5	3.2	1.2	1.2	.1							6.3	7.1
E	2.0	2.4	.7									5.7	4.1
ESE	2.1	2.4	.1									5.3	3.5
SE	2.4	1.0	.1									3.6	3.2
SSE	1.0	1.1										2.7	3.4
S	4.0	2.0	.8									7.9	3.4
SSW	1.0	2.7	1.4	.1								5.8	5.3
SW	.5	2.1	2.1	1.4	.1							5.7	7.6
WSW	1.0	1.9	.2	.2								3.8	5.3
W	1.0	.3	.4	.2	.1							2.1	5.8
WNW	.2	.1		.2		.1						.8	10.4
NW	.1											.1	1.0
NNW	.2											.6	3.6
VARBL	12.0	9.4	10.9	4.2	.1							34.7	5.7
CALM												5.1	
	23.1	32.7	18.2	7.4	.4	.1						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING CENTER  
ETAC/CSAF  
AIR WEATHER SERVICE/TAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURREJO DE SPAIN/DAVID STATION NAME 68-77 YEARS JUL 68 MONTH 1200-1400 HOURS (L.S.T.)

ALL WEATHERS CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	.5	.1								2.1	5.1
NNE	.0	.5	1.4	.4								2.9	7.4
NE	.0	.0	.0	.0								2.2	7.7
ENE	.0	.0	.0	.0								2.0	6.4
E	.7	.9	.0	.2								2.6	5.9
ESE	.0	1.3	.0									2.7	4.9
SE	1.1	.6	.4	.2								2.3	4.9
SSE	1.1	1.6	.4		.1							3.4	4.9
S	1.2	3.3	1.4	.0								6.7	5.9
SSW	1.2	2.8	2.7	.4	.1							7.2	6.5
SW	1.3	1.9	2.2	1.3								6.8	7.4
WSW	.0	2.4	1.9	2.1	.1							7.0	8.1
W	1.2	2.1	1.6	.0								5.7	6.3
WNW	.4	.3	.3	.4								1.6	8.2
NW	.3	.4	.1	.1								1.0	5.2
NNW	.2	.1	.2	.2								.8	8.0
VARBL	0.0	12.9	15.0	6.3	.2							41.6	7.1
CALM												1.6	
	12.7	33.9	20.9	14.4	.6							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 T-PRJUN AB SPAIN/MAJRID STATION NAME 60-77 YEARS JUN MONTH

1500-1700  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	.2	1.0	.0	.1							3.0	7.3
NNE	.2	1.4	1.2	.2	.1							3.2	7.3
NE	.1	.8	1.4	.2	.1							2.7	8.0
ENE	.4	1.2	.7	.7	.1							3.1	7.6
E	.0	1.0	1.0	.4	.1							3.1	7.3
ESE	.2	.3	.0	.1								1.2	6.6
SE	1.1	.4	.1	.3	.1							2.1	5.5
SSE	.0	1.0	.3	.1								2.2	4.9
S	1.3	1.9	1.2	.3	.1							4.9	5.8
SSW	.4	1.7	1.3	.7								4.6	6.8
SW	.6	2.6	2.7	.9	.1							6.8	7.4
WSW	1.0	2.2	2.7	2.5								8.8	8.5
W	1.0	3.6	2.1	.2								7.4	6.6
WNW	.3	1.6	.7	.7								3.2	7.2
NW	.3	.7	.4	.2								1.7	6.4
NNW	.3	1.1	.9	.6		.1						2.7	7.5
VARBL	5.2	11.1	14.4	6.0	.3							37.1	7.5
CALM												2.2	
	15.0	33.4	32.3	15.4	1.1	.1						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURKEY, AS SPAIN/4ADRID

STATION NAME

6-77

YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.9	2.7	.0								7.2	7.0
NNE	1.0	1.8	2.1	.2								5.8	6.0
NE	1.1	1.9	1.6	.0								5.1	6.4
ENE	.7	1.2	1.1	1.1								4.0	7.6
E	1.2	1.2	2.1	.3	.1							5.0	6.6
ESE	.0	.8	.0	.2	.1							1.9	5.6
SE	.2	.3	.6	.2	.1							2.0	6.6
SSE	.4	.6	.0	.2	.1							1.9	7.2
S	.9	1.8	.0	.2								3.8	5.9
SSW	.5	.9	1.1	.0								3.1	7.3
SW	2.1	2.1	2.7	1.2								8.1	6.5
WSW	1.0	4.3	2.7	.3	.1							9.8	6.4
W	1.7	3.3	2.2	.0								8.4	6.0
WNW	.2	.9	.7									2.4	5.0
NW	1.1	1.7	1.2	.2	.2							4.4	6.4
NNW	1.0	1.2	.0	.2								3.8	5.2
VARBL	4.5	2.9	5.0	2.2	.1							15.3	6.6
CALM												7.9	
	22.3	29.8	29.2	10.0	.8							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

900



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY, AN SPAIN/ADKID STATION NAME YEARS 60-77  
JULY MONTH  
2100-2300 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	4.2	3.3	2.2	2.2								8.0	3.8
NNE	5.2	2.1	2.3	1.1								12.8	4.4
NE	2.7	4.3	3.7	2.2								12.9	6.7
ENE	1.3	2.6	1.2	.7								5.8	6.0
E	1.2	1.6	.7									3.8	4.4
ESE	.4	.6	.1									1.1	4.4
SE	.3	.6	.5									1.7	5.3
SSE	.4	.8	.4	.2								1.9	6.1
S	.7	1.6	.7									2.9	5.2
SSW	1.3	1.0	.3	.1								3.3	4.9
SW	1.6	1.1	.6									3.2	4.0
WSW	.3	1.7	.6	.2								3.7	5.3
W	2.4	1.6	.2	.3								4.8	4.0
WNW	1.3	.4										1.8	2.8
NW	1.1	.7										1.8	3.2
NNW	1.3	1.3	.2									3.4	3.5
VARBL	3.9	2.1	2.6	.7								9.4	5.2
CALM												17.8	
	31.2	36.7	15.2	4.4	.2							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROC. S.I. 1.6  
ETAC/USAF  
AIR WEATHER SERVICE/AF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY, AF SPAIN/ADRILO 6-77 YEARS MONTH ALL

ALL WEATHER CLASS HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.4	.5	.2								4.6	4.3
NNE	3.4	2.2	1.5	.3	.0							7.1	4.6
NE	2.0	2.7	2.3	1.1	.0							8.8	6.0
ENE	2.7	2.4	1.4	.3	.0							7.2	5.3
E	2.3	1.7	.0	.2	.0							4.9	4.5
ESE	1.0	.0	.4	.4	.0							2.1	4.2
SE	.2	.1	.3	.1	.0							1.8	4.7
SSE	.7	.8	.3	.1	.1							2.1	5.5
S	1.4	1.9	.0	.2	.0							4.2	5.0
SSW	1.0	1.8	1.4	.3	.0							4.5	6.0
SW	1.0	1.6	1.6	.7	.0							4.9	6.7
WSW	.9	1.7	1.1	.3	.1							4.5	7.0
W	1.1	1.5	1.0	.4	.0							3.9	5.9
WNW	.5	.4	.2	.2	.0							1.3	6.2
NW	.0	.5	.2	.1	.0							1.4	5.0
NNW	1.0	.6	.2	.1	.0							2.0	4.5
ARBL	5.5	5.5	6.0	2.7	.1							20.8	6.3
CALM												13.7	
	24.0	28.0	20.0	8.1	.5							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

7194

DATA PROCESSING BRANCH  
ETAC/LSAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AR SPAIN/RAADID STATION NAME JUL 77 MONTH

0000002000 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	4.3	2.5	0.5	0.2	0.1	0.1						7.8	4.2
NNE	5.3	3.5	1.7	0.2								10.9	4.1
NE	5.7	5.6	5.7	2.0	0.2							20.2	6.3
ENE	3.6	3.7	2.0	0.1								10.1	5.7
E	2.2	2.5	0.3	0.1	0.2							5.7	5.2
ESE	0.3	0.3	0.2									0.9	4.6
SE	0.2	0.6	0.3									1.2	5.3
SSE	0.1	0.6	0.3									1.1	5.8
S	0.1	0.5	0.1									0.8	5.1
SSW	0.0	1.1		0.1								1.8	4.2
SW	0.3	0.5	0.3									1.2	4.9
WSW	0.4	0.3	0.1									0.6	4.0
W	0.2	0.1	0.2	0.4								1.0	8.4
WNW	1.1	0.1										1.2	2.5
NW	1.2	0.3										1.5	2.5
NNW	2.2	0.5		0.1								2.8	3.1
VARBL	5.2	2.5	1.7	1.1	0.1							10.5	4.9
CALM												20.8	
	22.2	25.4	14.7	6.0	0.6	0.1						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR FATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURKEY AIR SPAIN/NADAIL

STATION NAME

48-77

YEARS

JUL  
MONTH

0300-0500  
HOURS (L.S.T.)

ALL WEATHERS  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.2	1.1	1.4	1.1								7.4	2.9
NNE	3.2	3.3	1.3	1.2								13.1	3.6
NE	7.6	4.0	3.0	1.2								15.8	4.6
ENE	7.5	4.3	1.5	1.2								13.9	4.4
E	2.7	1.2	1.1	1.2								4.9	3.9
ESE	1.2	1.1										1.6	3.2
SE	1.2	1.1										1.3	3.0
SSE	1.2	1.2										1.4	3.8
S	1.3	1.6	1.3									1.3	4.8
SSW	1.2	1.6	1.4									1.3	5.4
SW	1.1	1.6	1.1									1.9	4.8
WSW	1.2	1.4	1.4	1.2								1.3	6.6
W	1.4	1.1	1.1									1.6	3.7
WNW	1.2	1.1										1.6	3.2
NW	1.2	1.1										1.3	2.5
NNW	2.5	1.9	1.1									3.9	2.9
VARBL	4.1	1.9	1.4	1.2								6.7	3.5
CALM												25.6	
	42.0	20.5	6.3	2.2								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION T.RNEJ AB SPAIN/PALMID STATION NAME 57-77 YEARS JUL MONTH 0600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2	0	0.2								3.0	4.9
NNE	3.4	1.3	0.6	0.1								5.5	3.7
NE	5.4	2.0	2.5	1.2								12.2	5.4
ENE	0.4	0.9	3.4	1.0	0.1							18.4	5.4
E	6.0	5.0	1.2	0.2								12.9	3.8
ESE	1.7	0.6										2.6	2.9
SE	1.3	0.3										1.6	2.7
SSE	1.0	0.2										1.2	2.5
S	0.1	1.4	0.3									2.6	4.5
SSW	0.1	1.0	0.5									2.3	5.0
SW	0.4	0.9	0.2	0.1								1.7	5.4
WSW	0.5	0.1	0.1	0.4								1.2	6.5
W	0.2	0.1	0.1	0.1								0.9	4.3
WNW	0.1	0.1										0.2	2.5
NW	0.3											0.3	1.3
NNW	0.5	0.4										1.0	3.0
VARBL	5.5	3.2	3.0	1.0	0.2							14.0	5.7
CALM												18.4	
	27.4	24.6	15.4	5.4	0.3							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

928

DATA PROCESSING CENTER  
ETAC/USAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORRENTIA DE SPAIN/HAADRIU  
STATION NAME

50077  
YEAR

JUL  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥ 16	%	MEAN WIND SPEED
N	.4	.4	.2	.2								1.6	7.6
NNE	.6	.6	.4	.2								2.3	6.8
NE	.8	1.1	1.6	.2								3.7	6.7
ENE	1.1	2.0	2.4	1.3								6.5	7.1
E	2.2	3.4	1.5	.4								8.0	5.4
ESE	2.5	2.6	.6									5.3	3.7
SE	1.6	1.4	.1									3.1	3.5
SSE	1.5	1.3										3.2	3.2
S	4.1	3.3	.0	.1								8.2	3.9
SSW	2.8	3.0	1.3	.2								6.7	5.0
SW	.4	4.7	1.6	.5								4.9	6.1
WSW	.8	.9	.6	1.1	.1							3.3	8.0
W	1.1	.4	.3	.3								2.0	5.3
WNW	.2											.3	2.3
NW	.1											.1	1.0
NNW	.2	.2		.1								.3	6.3
VARBL	11.2	11.1	12.2	2.2	.4							37.1	5.8
CALM												3.4	
	31.2	34.5	22.3	7.4	.5							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

620

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TUPREJTA AB SPAIN/MADRID YEARS 68-77 MONTH JUL

1200-1400  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.9	.6	.9								2.8	7.9
NNE	.6	.8	.4	.1								1.9	5.4
NE	.6	.9	.8	.8								2.9	7.2
ENE	.3	1.1	1.1	.1	.1							2.7	6.9
E	.8	2.0	.9									3.7	5.1
ESE	.5	.3										1.6	3.5
SE	.1	.6										.8	4.1
SSE	1.3	1.8	.8									3.9	4.7
S	.8	3.3	1.7	.5								6.4	6.3
SSW	1.1	3.0	2.0	.6	.1							6.9	6.7
SW	.6	1.4	2.7	1.3	.2							6.2	8.6
WSW	.5	1.5	1.6	1.1		.1						4.8	8.1
W	.6	2.6	1.4	.6	.1							5.4	6.9
WNW	.3	.2	.2	.1								.9	5.8
NW	.1	.6		.3								1.1	6.8
NNW	.1	.5	.2	.1								1.0	6.0
VARBL	6.0	11.4	21.5	0.9	.3	.2						46.4	7.6
CALM												.8	
	15.3	33.5	36.0	13.3	.9	.3						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 929

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/TAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AR SPAIN/MADRID STATION NAME YEARS 68-77 MONTH JUL

1500-1700  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.3	1.0	1.4	.1	.1						3.4	9.8
NNE	.5	.3	.6	.6								2.2	8.1
NE		.8	.9	.5	.1							2.3	8.8
ENE	.1	.9	.4	.5								1.9	7.7
E	.4	1.2	1.0	.2								2.8	6.5
ESE	.3	.3	.2									.9	4.9
SE	.2	.4	.4	.1								1.0	6.9
SSE	.3	.3	.3	.1								2.0	5.7
S	1.2	.9	1.5	.5								5.2	6.1
SSW	.4	1.3	2.4	1.0	.1							6.1	7.8
SW	.6	1.8	2.8	2.4	.2							7.8	8.9
WSW	.3	2.6	3.5	1.3	.2	.1						8.1	8.5
W	.2	2.7	2.5	1.2	.1							6.8	7.6
WNW	.5	1.0	1.0	.1								2.6	6.6
NW	.3	.5	.3	.2								1.4	6.1
NNW	.6	1.0	.8	.3								2.7	6.2
VARL	3.2	9.7	21.1	7.5	.4							41.9	8.0
CALM												1.0	
	10.1	28.7	40.6	18.1	1.3	.2						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AB SPAIN/MADRID STATION NAME 68-77 YEARS JUL MONTH

1800-2000  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.8	2.7	2.9	.1							8.9	8.7
NNE	1.2	.8	1.2	.6	.2							4.0	7.2
NE	.5	1.1	1.0	1.2	.2							4.0	8.3
ENE	.3	1.7	1.3	1.1	.2							4.6	8.4
E	.9	1.0	.5	.1	.1							2.6	5.7
ESE	.4	.3	.2	.1								1.1	5.3
SE	.0	.5	.4	.2	.1							2.0	6.1
SSE	1.0	.4	.6	.4								2.5	6.3
S	.8	1.1	.4									2.3	4.6
SSW	.6	1.8	.4	.2	.1							3.2	5.7
SW	1.6	2.0	1.6	1.3								6.8	6.7
WSW	1.3	4.3	4.0	.9								10.4	6.6
W	2.5	3.9	4.3	1.0	.1							11.7	6.3
WNW	1.4	1.9	1.5	.0								5.6	6.1
NW	1.1	.5	1.2	.3	.1							3.2	6.7
NNW	.5	2.0	.6	.2								3.5	6.0
VARBL	2.3	3.9	5.3	3.4	.8	.1	.1					19.0	8.5
CALM												4.5	
	17.7	30.1	30.6	14.7	2.0	.1	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AB SPAIN/MADRID STATION NAME 63-77 YEARS JUL MONTH

2100-2200  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.7	2.6	1.7	.0								8.6	5.0
NNE	3.2	4.8	3.9	1.2	.1		.1					13.3	6.2
NE	2.4	5.1	3.9	4.3	.5							16.1	7.9
ENE	1.7	2.3	1.2	1.2	.1							6.5	6.4
E	.6	1.5	.3									2.5	4.6
ESE	.4	.4										.9	3.6
SE		.3	.4	.2								1.2	7.3
SSE		.3	.1	.5								1.2	9.0
S		.4	.4		.1							1.3	6.5
SSW	.0	.4	.1									1.2	3.7
SW	1.1	.4	.5	.1								2.2	4.6
WSW	.5	1.7	.4	.2								3.2	5.1
W	2.3	2.6	.2	.5								5.9	4.8
WNW	2.3	1.0	.3									3.5	3.3
NW	.9	.6	.4	.1								2.0	4.8
NNW	2.7	1.9	.5									5.2	3.6
VARBL	2.7	2.2	2.9	1.1	.1							8.9	6.1
CALM												16.3	
	26.6	28.6	17.7	10.2	1.0		.1					100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJA AB SPAIN/MADRID 6877 YEARS JUL MONTH

ALL WEATHER CLASS HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.2	1.3	1.0	.4	.0	.0						5.5	5.9
NNE	2.5	1.9	1.3	.5	.0		.0					6.6	5.0
NE	2.9	2.6	2.4	1.6	.1							9.6	6.4
ENE	2.6	2.9	1.7	.9	.1							8.1	5.8
E	2.0	2.3	.6	.2	.0							5.4	4.7
ESE	.9	.7	.1	.0								1.7	3.8
SE	.6	.5	.2	.1	.0							1.4	4.8
SSE	.7	.8	.3	.1								1.9	5.0
S	1.0	1.6	.7	.1	.0							3.5	5.1
SSW	.8	1.7	.9	.3	.0							3.7	6.0
SW	.7	1.3	1.2	.7	.1							4.0	7.2
WSW	.6	1.5	1.4	.6	.0	.0						4.1	7.2
W	1.0	1.6	1.2	.5	.0							4.3	6.3
WNW	.6	.6	.4	.1								1.9	5.0
NW	.6	.3	.2	.1	.0							1.4	5.0
NNW	1.2	.9	.3	.1								2.5	4.3
VARBL	5.0	5.7	9.0	3.0	.3	.0	.0					23.1	6.9
CALM												11.3	
	26.6	28.2	23.1	9.6	.8	.1	.0					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

7437

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AR SPAIN/MADRID

STATION NAME

68-77

YEARS

AUG  
MONTH

0000-0200  
HOURS (L.S.T.)

ALL WEATHER  
CLAYS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.2	1.7	.3	.2								7.4	3.2
NNE	5.4	4.5	3.7	.6								14.3	5.1
NE	4.3	4.3	5.5	2.6								15.9	6.8
ENE	3.4	4.6	2.6	1.3	.1							12.0	5.8
E	1.6	2.3	.5									4.4	4.1
ESE	.4	.4	.1									1.0	4.0
SE	.2	.2	.2	.1								.8	6.3
SSE	.3	.5	.1	.3								1.3	5.9
S	1.1	.9	.8	.4	.1							3.2	6.5
SSW	.2	1.0	.2	.1								1.5	5.4
SW	.3	.3	.5	.1								1.3	6.3
WSW	1.0	.5	.3									1.8	3.9
W	1.1	.2	.2									1.5	3.5
WNW	.6		.1									.8	3.3
NW	.6	.4		.1								1.2	4.5
NNW	2.2	.9										3.0	2.9
VARBL	4.1	1.8	1.9	1.4								9.2	5.5
CALM												18.4	
	32.0	24.6	17.1	7.6	.2							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TORREJON AB SPAIN/MADRID STATION NAME YEARS 68-77 MONTH AUG  
CLASS ALL WEATHER HOURS (L.S.T.) 0300-0500

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	6.1	1.8	.1	.3								8.4	3.0
NNE	5.9	3.9	.8	.1								10.6	3.6
NE	8.9	6.0	3.7	1.0								19.6	4.7
ENE	5.7	4.7	1.6	1.2								13.4	5.0
E	2.5	2.9	.5									5.9	3.9
ESE	.3	.2										.5	2.8
SE	.1	.3	.1									.5	5.0
SSE		.2	.1									.3	5.3
S	.5	.2	.8	.1								1.6	5.6
SSW		1.0	.4	.1								1.5	6.6
SW	.6	.6	.4									1.7	4.8
WSW	.4											.4	2.8
W	.5											.5	2.2
WNW	.1	.1										.2	3.0
NW	.3	.2										.5	3.0
NNW	2.0	1.0		.1								3.1	3.0
VARBL	4.8	1.9	1.4	.2								8.4	4.0
CALM												22.6	
	39.6	25.2	10.1	3.1								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURRENT AR SPAIN/NADKID STATION NAME YEARS 68-77 MONTH AUG  
CLASS ALL WEATHER HOURS 0600-0800 (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	1.0	.2	.3								4.7	3.6
NNE	5.1	1.4	.6	.4								7.5	3.7
NE	7.6	4.5	2.4	1.4								15.9	4.9
ENE	7.5	7.0	2.2	1.5	.2							18.4	4.9
E	7.0	5.4	1.3	.5								14.2	4.0
ESE	1.0	.2	.1									1.3	2.8
SE	.5											.5	1.4
SSE	1.0		.1									1.1	2.7
S	1.2	.6										1.8	2.9
SSW	.5	1.3	1.2	.1								3.1	6.0
SW	.2	1.0	.2									1.4	5.2
WSW	.1	.1	.1									.3	5.7
W	.2		.1	.1								.4	6.0
WNW		.1										.1	5.0
NW	.2											.2	2.5
NNW	.8	.1	.2									1.1	3.5
VARBL	4.6	3.3	1.4	1.5								10.9	5.3
CALM												17.0	
	40.8	26.0	10.1	5.4	.2							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/11AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJTN AR SPAIN/MADRID

68-77

YEARS

AUG

MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	.3	.4								1.3	8.6
NNE	1.1	1.0	.6	.4								3.1	6.1
NE	.8	.8	1.4	1.1	.1							4.1	8.5
ENE	1.9	2.8	2.4	1.0	.2							8.3	6.5
E	4.0	4.6	.9	.4	.3							10.2	4.8
ESE	2.9	2.2	.1									5.2	3.3
SE	2.8	1.0	.2									3.8	2.9
SSE	2.5	1.0	.2									3.7	3.4
S	4.6	2.2	.6	.1								7.6	3.7
SSW	2.4	3.2	2.0	.2	.1							8.0	5.4
SW	.9	1.0	1.7	.8								4.3	6.9
WSW	.5	.9	1.4	.2								3.0	6.6
W	1.0	.3	.2									1.5	3.9
WNW	.2	.1	.1									.4	4.5
NW	.1		.1									.2	4.5
NNW	.2			.1								.3	6.7
/ARBL	8.4	10.9	8.2	3.5	.1							31.1	6.0
CALM												4.0	
	34.3	32.2	20.4	8.3	.9							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURREJTN AB SPAIN/MADRID

STATION NAME

58-77

YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (G.M.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	.6	.2								2.7	5.2
NNE	.5	1.0	1.5	.6	.1							3.8	7.7
NE	.3	.5	.9	.8	.1							2.6	8.7
ENE	.3	.3	.5	.8	.2							2.2	10.1
E	.6	1.5	.3	.1								2.6	5.3
ESE	.6	.6	.1									1.4	3.6
SE	.4	1.1	.4									1.9	4.6
SSE	1.0	1.5	.1	.2								2.8	4.6
S	2.2	4.9	1.3									8.4	4.8
SSW	1.3	4.2	1.8	1	.2							8.6	6.7
SW	1.2	2.6	3.1	4	.1							8.3	7.6
WSW	.6	2.0	1.6	.6	.1							6.0	8.2
W	.9	1.9	1.6	.4								4.8	6.5
WNW	.3	.8	.2	.3								1.6	6.8
NW	.1	.2	.3	.2								.9	8.3
NNW	.2	.4	.3	.1	.1							1.2	7.3
VARBL	5.1	11.0	16.2	6.5								38.7	7.4
CALM												1.6	
	16.9	35.3	31.0	14.3	1.0							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

930



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID STATION NAME 6 SEP 77 YEARS AUG MONTH

1500 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.9	1.1	1.0	.3							3.8	9.1
NNE	.6	.9	.5	.4								2.5	6.4
NE		.6	.6	1.1	.1	.1						2.6	11.0
ENE	.3	1.0	1.0	.3	.4							3.0	8.6
E	.6	1.1	.4	.2								2.4	5.6
ESE	.6	.3		.1								1.1	4.2
SE	.4	.5	.1	.1								1.2	4.7
SSE	.9	1.0	.3	.1								2.3	4.9
S	1.1	1.5	.9	.5								4.0	6.2
SSW	1.2	3.2	2.0	.9	.1							7.4	6.7
SW	.9	2.7	2.4	1.4	.3							7.6	7.8
WSW	.5	4.0	3.1	2.3	.2							10.1	8.2
W	1.3	2.0	2.6	.8	.1							6.8	6.9
WNW	.3	1.1	.6	.4								2.5	7.5
NW	.2	.4	.5	.3								1.5	8.1
NNW	.1	.8	1.1	.6	.1							2.8	9.2
VARBL	4.0	8.6	16.4	8.1	.5							37.6	8.2
CALM												1.0	
	13.7	30.6	33.7	18.7	2.3	.1						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AR SPAIN/MADRID

68-77

STATION NAME

YEARS

AUG

MONTH

ALL WEATHER

CLASS

1800-2000

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	2.4	3.3	3.9	.2							11.1	9.0
NNE	1.2	1.7	2.2	.2	.1							5.4	6.2
NE	.8	1.5	1.0	.9	.1							4.2	7.1
ENE	.4	.9	.8	.9	.2							3.1	8.8
E	.2	1.4	1.0	.6								3.2	7.7
ESE	.2	.4	.3		.1							1.1	6.5
SE	.3	.5	.4	.2	.2							1.7	7.7
SSE	.3	.6	.6	.3								2.4	6.0
S	1.4	1.6	.6	.1								3.8	4.9
SSW	2.2	1.5	.5	.1								4.3	4.4
SW	.8	2.0	.8	.1								3.7	5.4
WSW	1.7	2.9	3.4	1.2								9.2	6.8
W	2.1	4.8	2.9	.5								11.4	5.4
WNW	1.4	1.5	1.8	.6								5.5	6.8
NW	1.4	1.7	.4	.2	.1							3.9	5.3
NNW	1.1	1.4	.9	1.1								4.4	6.7
VARBL	2.7	2.3	5.5	3.7	.3							16.4	7.9
CALM												7.3	
	20.9	29.2	26.5	14.7	1.4							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR -ATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AB SPAIN/MADRID YEARS 68-77 AUG MONTH  
2100-2300 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.8	2.6	.9	.5								7.7	4.2
NNE	3.3	5.6	5.4	.9								15.2	5.3
NE	2.8	2.7	4.4	4.3	.5							14.7	8.3
ENE	2.4	2.9	1.7	1.0	.4							8.4	6.4
E	.8	.9	1.0	.2								2.8	6.0
ESE	.5	.1	.2									.9	4.5
SE	.3	.5	.4	.4								1.7	7.4
SSE	.3	.5	.3	.5								1.7	7.8
S	.3	1.2	.2									1.7	4.9
SSW	.3	.3	.3									1.0	4.8
SW	.9	1.2	.1									2.2	3.9
WSW	.9	.3	.2									1.4	3.8
W	1.6	1.6	.5	.2								4.0	4.6
WNW	1.4	.5	.1	.1								2.2	3.8
NW	1.6	.3										2.3	3.4
NNW	2.9	2.4										5.3	3.3
VARBL	4.4	1.6	1.9	1.5	.3							9.8	6.0
CALM												17.2	
	28.5	25.3	18.1	9.7	1.3							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TORREJON AB SPAIN/MADRID STATION NAME YEARS 68-77 AUG MONTH

ALL WEATHER  
CLASS

ALL  
GROSS (L.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	1.4	.9	.9	.1							5.9	5.5
NNE	2.9	2.5	1.9	.5	.0							7.8	5.2
NE	3.2	2.6	2.5	1.7	.1	.0						10.1	6.5
ENE	2.8	3.0	1.6	1.0	.2							8.6	5.9
E	2.2	2.5	.7	.3	.0							5.7	4.7
ESE	.8	.6	.1	.0	.0							1.5	3.8
SE	.6	.5	.2	.1	.0							1.5	4.9
SSE	.8	.7	.2	.2								1.9	4.9
S	1.5	1.6	.7	.2	.0							4.0	4.8
SSW	1.0	2.0	1.1	.3	.1							4.4	5.9
SW	.7	1.4	1.1	.5	.1							3.8	6.7
WSW	.7	1.3	1.3	.7	.0							4.0	7.1
W	1.2	1.4	1.0	.3	.0							3.9	5.6
WNW	.6	.5	.4	.2								1.7	6.1
NW	.6	.4	.2	.1	.0							1.3	5.3
NNW	1.2	.9	.3	.3	.0							2.6	5.0
VARBL	4.8	5.2	6.6	3.3	.2							20.0	6.8
CALM												11.1	
	28.3	28.5	20.9	10.3	.9	.0						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

7439

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID 68-77 YEARS SEP NORTH

0000-0200  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.4	.9										5.3	2.4
NNE	6.6	2.1	1.3	.2								10.2	3.7
NE	5.1	3.8	1.9	.1								10.9	4.2
ENE	4.4	3.9	.6	.2								9.1	3.9
E	2.6	2.4	.3									5.3	3.7
ESE	.2	.1	.1									.4	4.5
SE	.4	.1										.6	3.2
SSE	.6	.7	.2									1.4	4.8
S	.7	1.4	.8									2.9	5.2
SSW	1.1	1.1	1.2									3.4	5.4
SW	.1	1.2	.9	.1								2.3	6.5
WSW	.7	.8	.6	.1								2.1	4.9
W	1.0	.1	.2	.1								1.4	3.9
WNW	.8	.1	.2	.2								1.3	4.7
NW	.6	.1	.2									.9	4.0
NNW	1.2	.6	.1									1.9	2.8
VARBL	4.3	2.8	2.1	.2								9.4	4.4
CALM												30.9	
	34.8	22.2	10.8	1.3								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID STATION NAME 6877 YEARS SEP MONTH

0300-0500  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.8	.6	.4	.1								2.9	2.8
NNE	7.7	3.2	.7	.4								12.0	3.5
NE	9.0	3.9	.3	.4								13.7	3.3
ENE	6.1	2.8	.3									9.2	3.1
E	2.9	1.9	.3	.1								5.2	3.7
ESE	.4	.2										.7	2.8
SE													
SSE		.1										.1	4.0
S		1.8	.7									2.4	5.6
SSW	.4	1.4	1.8	.1								3.8	6.6
SW	.6	1.1	1.2									2.9	5.7
WSW	.3	.6	.1	.2								1.2	5.6
W	.6	.2	.1	.1	.1							1.1	6.0
WNW	.6	.1	.2									.9	4.3
NW	.6		.1									.7	3.2
NNW	.6	.3										.9	2.9
VARBL	4.8	1.7	.8	.2								7.5	3.5
CALM												31.8	
	39.3	19.9	7.1	1.8	.1							100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

899

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID SEP MONTH YEARS 68-77

0600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	.3	.5	.1								2.8	4.0
NNE	5.2	.4	.9	.2								7.0	3.9
NE	10.0	2.3	.4	.7								13.4	3.3
ENE	11.1	4.9	.8									16.8	3.1
E	7.9	2.4	.3									10.7	2.8
ESE	1.2			.1								1.3	2.8
SE	.2											.2	2.0
SSE	.6	.1										.7	2.2
S	.3	1.1	1.0	.2								2.7	6.5
SSW	1.2	1.2	1.4	.2								4.1	5.9
SW	1.0	.8	.7	.2								2.7	5.5
WSW	.4	.3	.6									1.3	5.8
W	.3	.1	.3	.1								.9	6.4
WNW			.1									.1	8.0
NW	.4			.1								.6	4.2
NNW	.7	.2	.2									1.1	3.3
VARBL	3.3	2.2	1.4	.8								7.8	5.0
CALM												25.9	
	45.8	16.6	8.8	2.8	.2							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
BTAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AB SPAIN/MADRID 6877 YEARS SEP MONTH

0900-1100  
HOURS (L.M.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	.6	.7								2.3	7.3
NNF	.7	.8	.8	.6								2.8	6.8
NE	.9	.7	.6	1.0								3.1	7.6
ENE	2.2	2.3	1.7	.6								6.8	5.5
E	5.0	3.6	.8									9.3	3.6
ESE	4.2	1.0	.2									5.6	2.7
SE	2.4	.4	.2	.1								3.2	3.1
SSE	2.9	1.0										3.9	2.8
S	3.4	2.4	1.0									6.9	4.0
SSW	1.8	2.9	1.3	.8	.1							6.9	5.9
SW	1.8	1.9	2.9	1.0								7.6	6.6
WSW	1.0	1.4	1.6	1.0								5.0	7.2
W	.6	.2	.4	.3								1.6	6.6
WNW	.3											.3	1.3
NW	.1											.1	1.0
NNW	.2	.1										.3	3.3
VARBL	10.8	7.3	4.0	1.2								23.3	4.6
CALM												11.1	
	38.9	26.7	16.0	7.2	.1							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

900



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AR SPAIN/MADRID

STATION NAME

68-77

YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

CLASS

1200-1400  
HOURS (L.T.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.8	.6	.3	.2							2.9	8.4
NNE	.1	.4	.7	.3								1.6	7.9
NE	.2	.7	.7									1.6	6.1
ENE	1.0	1.1	.7	.1								2.9	5.2
E	1.0	1.3	.2	.1								2.7	6.4
ESE	1.0	1.1										2.1	3.6
SE	.7	.2	.1									1.0	3.6
SSE	1.3	.9	.1									2.3	3.3
S	2.6	3.3	1.2	.1								7.2	4.6
SSW	1.3	3.9	1.8	.8	.1							7.9	6.4
SW	1.6	3.9	2.4	3.0	.9	.1						11.9	8.7
WSW	1.8	3.2	2.3	2.4	.3							10.1	7.8
W	1.1	2.0	1.6	.4								5.1	6.3
WNW	.4	1.1	.7	.2								2.4	6.0
NW	.4	.2		.1								.8	4.3
NNW	.4	.4	.1									1.0	4.1
VARBL	7.3	10.9	11.9	3.3	.2							33.7	6.4
CALM												2.9	
	22.9	35.6	25.0	11.8	1.8	.1						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
BTAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID YEARS SEP MONTH  
1500-1700 HOURS (L.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.1	1.2	1.4	.2							4.3	9.6
NNE	.1	.2	.4	.3								1.1	8.1
NE	.1	.8	.3									1.2	5.5
ENE	.6	.8	.1									1.4	4.1
E	1.0	1.0	.2									2.2	3.8
ESE	.9	1.0										1.9	3.6
SE	1.3	.6	.3									2.2	3.8
SSE	.6	1.2	.2									2.0	4.4
S	1.2	2.3	1.3	.2								5.1	5.4
SSW	2.1	3.3	1.9	.1								7.4	5.5
SW	1.7	2.8	1.7	2.4	.4							9.0	8.1
WSW	.8	3.7	3.6	3.7	.4							12.1	8.8
W	1.7	2.2	3.1	2.0	.1	.1						9.2	7.7
WNW	.6	.8	1.2	.2								2.8	7.0
NW	.2	.9	.4	.2								1.8	6.5
NNW	.1	1.0	.7	.3	.1							2.2	7.9
VARBL	4.4	10.7	9.4	5.4	.1							30.1	7.0
CALM												3.8	
	17.7	34.3	26.2	16.4	1.4	.1						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURREJON AB SPAIN/MADRID STATION NAME YEARS 6877 SEP MONTH

1800-2000  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	3.6	2.7	1.3	.1							10.8	6.0
NNE	1.4	1.8	.9									4.1	4.7
NE	1.8	1.4	.7	.1								4.0	4.4
ENE	1.2	1.1	.7	.1								3.1	5.0
E	.6	1.1	.2	.1								2.0	4.7
ESE	.4	.4	.1									1.0	3.9
SE	.7	.3										1.0	3.3
SSE	.8	.6	.3									1.7	4.7
S	1.1	1.7	.8									3.6	4.6
SSW	1.2	1.4	1.3									4.0	5.0
SW	2.7	2.1	1.4									6.2	4.8
WSW	3.0	2.6	3.0	2.0	.2							10.8	6.9
W	3.0	2.7	1.3	.7								7.7	5.0
WNW	3.9	1.0	1.6	.4								6.9	4.8
NW	1.7	1.8	.4	.1								4.0	4.4
NNW	1.4	1.7	.4	.2								3.8	4.6
VARBL	2.6	1.0	2.0	1.1								6.7	6.1
CALM												18.8	
	30.6	26.2	17.9	6.2	.3							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID 6877 YEARS SEP MONTH

2100 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.9	2.0		.2								6.1	3.3
NNE	5.4	4.8	1.6	.1								11.9	4.0
NE	4.6	7.4	1.3	.1								13.4	4.3
ENE	2.2	3.0	1.3	.2								6.8	4.8
E	2.1	.4	.3	.1								3.0	3.5
ESE	.2											.2	1.5
SE		.2	.1									.3	5.3
SSE	.4	.8	.3									1.6	4.6
S	.8	1.2	1.2									3.2	5.6
SSW	.7	1.3	.4									2.4	4.8
SW	.9	1.0	.6	.1								2.6	5.3
WSW	1.1	1.1	.4	.3								3.0	5.2
W	1.1	1.0	1.6	.3								4.0	6.4
WNW	.3	.4	.4									1.2	5.9
NW	.7	.7	.2									1.6	4.2
NNW	1.2	.6	.1									1.9	3.0
VARBL	3.1	2.4	1.9	1.1								8.6	5.6
CALM												28.2	
	28.8	28.4	11.9	2.7								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID YEARS 68-77 SEP MONTH

ALL WEATHER CLASS HOURS (L.S.T.) ALL

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.2	.8	.6	.1							5.1	5.2
NNE	3.4	1.7	.9	.3	.0							6.3	4.2
NE	4.0	2.6	.8	.3								7.7	4.1
ENE	3.6	2.5	.8	.2								7.0	4.0
E	2.9	1.8	.3	.1								5.1	3.5
ESE	1.1	.5	.1	.0								1.6	3.1
SE	.7	.2	.1	.0								1.1	3.4
SSE	.9	.7	.2									1.7	3.8
S	1.3	1.9	1.0	.1								4.3	5.0
SSW	1.2	2.1	1.4	.3	.0							5.0	5.8
SW	1.3	1.8	1.5	.9	.2	.0						5.6	7.0
WSW	1.1	1.7	1.5	1.2	.1							5.7	7.4
W	1.2	1.1	1.1	.5	.0	.0						3.9	6.3
WNW	.9	.4	.6	.1								2.0	5.4
NW	.6	.5	.2	.1								1.3	4.6
NNW	.7	.6	.2	.1	.0							1.6	4.4
VARBL	5.1	4.9	4.2	1.7	.0							15.9	5.7
CALM												19.2	
	32.3	26.2	15.5	6.3	.5	.0						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 7199

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TORREJON AB SPAIN/MADRID STATION NAME YEARS 68-77 MONTH OCT

0000-0200  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.8	1.5	.4	.8	.2							6.7	4.6
NNE	5.9	2.7	.3	.3								9.2	3.3
NE	8.8	5.6	1.6	.4								16.5	3.8
ENE	5.8	2.7	.5	.1								9.1	3.3
E	2.0	1.8	.3	.1								4.3	3.8
ESE	.4	.4										.9	3.0
SE	.3	.5	.1									1.0	4.3
SSE	.1	.4	.5	.5								1.6	9.1
S	1.3	.9	.4		.1	.1						2.8	5.6
SSW	.4	1.3	.8	.1	.1							2.7	6.4
SW	.4	1.2	1.1	.4	.1							3.2	7.4
WSW	.4	.8	.9	.4								2.5	7.3
W	1.1	.1	.6	.3	.2	.1						2.5	7.6
WNW	.2		.3	.1								.6	7.2
NW	.2	.2	.3	.1								.9	6.1
NNW	1.7	.3	.1									2.2	2.4
VARL	4.6	1.7	1.6	.3								8.3	4.1
CALM												25.2	
	37.6	22.2	10.0	4.1	.6	.3						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AB SPAIN/MADRID

STATION NAME

6877

YEARS

DCT  
MONTH

ALL WEATHER  
CLASS

030000500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.7	1.4	.6	.8	.2							6.7	5.3
NNE	6.6	1.8	.8	.2								9.4	3.4
NE	7.4	4.6	1.1	.4								13.5	3.8
ENE	4.8	3.8	.9	.2								9.7	3.8
E	2.3	1.4	.1	.1								3.9	3.4
ESE	.6		.2									.9	3.6
SE	.5	.3	.2									1.1	4.0
SSE		.3	.3	.3								1.0	10.0
S	.6	1.2	1.2	.1								3.1	5.9
SSW	.3	1.2	.9	.6								3.0	7.2
SW	.4	.4	1.0	.2								2.0	7.2
WSW	.9	.4	.9	.5								2.7	6.9
W	.1	.4	.8	.4		.1						1.8	9.2
WNW	.4	.2	.1	.1								.9	4.8
NW	.2	.1	.1									.4	5.0
NNW	1.6	.3										1.9	2.4
VARBL	3.2	2.2	1.4	.3	.1							7.2	4.8
CALM												30.9	
	33.8	20.1	10.4	4.4	.3	.1						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID YEARS 6.3.77 OCT MONTH  
0600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 35	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.0	.4	1.1	.1							5.1	6.4
NNE	6.3	2.7	1.0	.4								10.4	3.7
NE	7.4	2.4	1.6	.6								13.1	4.0
ENE	8.4	3.2	.5	.1								12.3	3.2
E	2.6	1.4	.6	.2								4.8	4.2
ESE	.4											.4	1.5
SE	.3	.1	.1									.5	3.6
SSE	.1	.5	.8									1.4	6.3
S	.3	.8	.4	.3								1.8	6.5
SSW	.2	1.2	1.2	.4								3.0	7.3
SW	.2	.4	1.4	.5								2.6	8.3
WSW	.8	.1	.8	.9								2.5	8.0
W	.8	.4	.9	.4								2.5	6.7
WNW	.1	.1	.2	.2								.6	7.8
NW	.2	.1		.1								.4	6.5
NNW	.6		.2	.1								1.0	5.3
VARBL	3.3	1.3	.6	.8								6.0	4.7
CAIM												31.9	
	33.5	17.8	10.8	6.2	.1							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

930



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID 68<sup>00</sup>77 YEARS OCT MONTH

0900-1100  
HOURS (LST)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.3	.2	.2	.3							1.7	8.0
NNE	.8	.2	.4	.9	.3							2.6	9.2
NE	3.0	.9	.2	1.1								5.2	5.1
ENE	3.5	2.4	1.7	1.3								8.9	5.5
E	6.7	3.7	1.0	1.0								12.3	4.3
ESE	2.4	1.0	.3									3.7	3.1
SE	.9		.3									1.2	3.5
SSE	1.2	.1	.4	.5								3.0	5.0
S	2.9	.9	1.1	.2	.3							5.4	5.2
SSW	1.7	2.4	1.2	.3								5.6	5.1
SW	.5	1.0	1.7	1.3	.1							4.6	8.8
WSW	.4	1.1	.8	.9	.3							3.4	9.0
W	.4	.4	.4	.4	.2							1.7	7.2
WNW	.1	.4	.3	.4	.2							1.5	10.1
NW	.3	.2	.2	.2	.1	.1						1.0	10.4
NNW	.2	.1	.2	.1	.1							.6	7.7
VARBL	11.5	4.1	3.8	1.7	.4	.1						21.6	4.9
CALM												16.0	
	37.7	18.6	14.2	11.0	1.9	.2						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AR SPAIN/MADRID

STATION NAME

68-77

YEARS

OCT  
MONTH

1200-1400  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	.6	1.2	.1							3.2	9.4
NNE	.4	.3	.3	.6	.1							1.8	9.1
NE	.8	.6	.9	.2								2.5	6.2
ENE	.1	.9	1.3	1.3								3.5	9.0
E	1.0	1.1	1.1	.2								3.3	5.7
ESE	1.1	.5	.1									1.7	3.4
SE	1.3	.9	.3	.2								2.7	4.6
SSE	1.9	1.0	.6	.5								4.1	5.3
S	4.0	2.7	1.7	.6								9.0	4.8
SSW	2.6	1.9	1.6	.8	.2							7.1	6.1
SW	1.3	2.8	2.7	1.5								3.3	7.0
WSW	1.0	1.4	1.2	2.4	.5							4.5	9.4
W	1.4	.9	.8	1.1								4.1	6.8
WNW	.6	.5	.2	.8	.1							2.3	8.2
NW	.1	.1	.2	.2								.6	9.3
NNW	.2	.9	.6	.1								1.8	6.5
VARBL	11.2	9.5	6.0	3.2	.9	.1						30.9	5.9
CALM												6.6	
	28.9	27.2	20.3	14.9	1.9	.1						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AB SPAIN/MADRID

STATION NAME

68-77

YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.0	1.4	1.8	.4	.1						5.7	9.5
NNE	1.0	.8	.3	.3	.1							2.5	5.9
NE	.6	1.2	.5	.3								2.7	5.5
ENE	.5	.6	.9	1.2								3.2	8.5
E	.8	.8	.5	.2								2.3	5.9
ESE	.5	.3	.2									1.1	3.9
SE	.9	.6	.6	.2								2.4	5.3
SSE	1.1	1.5	.8	1.0								4.3	6.7
S	1.8	1.4	1.6	.5	.1							5.5	6.0
SSW	2.8	2.5	1.1	.3	.1							6.8	4.9
SW	2.8	3.6	1.6	1.8	.1							9.9	6.3
WSW	3.4	2.9	2.7	1.9	.9							11.8	7.1
W	2.6	1.6	1.3	1.4								6.9	6.3
WNW	.5	.3	.4	.5	.3							2.2	9.2
NW	.5	.4	.6	.5								2.2	7.3
NNW	.2	.1	.3		.2							.9	8.9
VARBL	6.1	5.9	3.6	2.6	.9	.2						19.3	6.5
CALM												10.5	
	27.1	25.5	18.5	14.9	3.1	.3						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AB SPAIN/MADRID

STATION NAME

68-77

YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.6	2.3	1.9	2.3	.3							11.4	6.5
NNE	3.5	2.4	1.1	.2								7.2	4.3
NE	2.4	1.4	.8	.1								4.6	4.3
ENE	1.7	1.3	.9									3.9	4.4
E	.6	.5	.4	.1								1.7	5.2
ESE	.4	.4	.2									1.1	4.3
SE	.5	.4	.6									1.6	5.3
SSE	.6	1.3	.8	.1	.2							3.0	6.4
S	1.6	1.1	.8									3.4	4.3
SSW	.4	1.2	1.0	.2	.1							2.9	6.6
SW	1.4	1.3	1.8	.4								4.9	6.3
WSW	2.0	1.4	1.6	.5	.1							5.7	6.0
W	2.4	1.7	1.1	.9								6.0	5.6
WNW	1.3	1.2	.9	.2								3.5	5.2
NW	.6	1.4	.5	.2		.1						2.9	6.1
NNW	2.4	1.5	.2	.2								4.3	3.8
VARBL	3.2	1.7	1.1	.2	.2							6.5	4.6
CALM												25.3	
	29.9	22.5	15.6	5.7	1.0	.1						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AR SPAIN/MADRID STATION NAME 68-77 YEARS OCT MONTH

2100-2300  
HOURS (G.M.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.8	1.3	.4	.8	.2							7.5	4.4
NNE	7.0	3.8	.9	.6								12.3	3.9
NE	4.1	3.7	1.7	.2								9.7	4.4
ENE	3.4	1.9	.6	.3								6.3	4.1
E	.8	1.1	.3	.2								2.4	5.3
ESE	.3	.4	.1									.9	4.5
SE	.2	.3	.1		.1							.8	5.7
SSE	.6	.3	.2	.5	.1							1.8	7.5
S	.9	1.0	1.0	.4								3.2	6.7
SSW	.8	.9	.9									2.5	5.2
SW	.2	1.7	1.5	.3								3.8	6.8
WSW	.3	1.1	1.6	.5								3.5	7.3
W	.8	.8	.6	.4								2.6	6.2
WNW	.6	.4	.1	.4								1.6	6.6
NW	.5	.1	.3	.1								1.1	5.8
NNW	1.6	.6	.1									2.4	3.0
VARBL	3.8	1.9	1.3	.8	.1							7.8	4.9
CALM												29.9	
	30.8	21.3	11.8	5.7	.5							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AB SPAIN/MADRID

STATION NAME

68-77

YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.4	.8	1.2	.2	.0						6.0	6.3
NNE	3.9	1.8	.6	.5	.1							6.9	4.2
NE	4.3	2.7	1.0	.4								8.5	4.2
ENE	3.5	2.1	.9	.6								7.1	4.5
E	2.1	1.5	.6	.3								4.4	4.5
ESE	.8	.4	.1									1.3	3.4
SE	.6	.4	.3	.1	.0							1.4	4.7
SSE	.8	.7	.6	.4	.0							2.5	6.5
S	1.7	1.2	1.0	.3	.1	.0						4.3	5.4
SSW	1.2	1.6	1.1	.3	.1	.0						4.2	5.9
SW	.9	1.5	1.6	.8	.0							4.9	7.1
WSW	1.2	1.1	1.3	1.0	.2							4.8	7.6
W	1.2	.8	.8	.7	.0	.0						3.5	6.6
WNW	.5	.4	.3	.3	.1							1.7	7.3
NW	.3	.3	.3	.2	.0	.0						1.2	7.0
NNW	1.1	.5	.2	.1	.0							1.9	4.2
VARBL	5.9	3.5	2.4	1.2	.3	.1						13.4	5.4
CALM												22.0	
	32.4	21.9	14.0	8.4	1.2	.1						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

7439

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AB SPAIN/MADRID STATION NAME 6877 YEARS NOV MONTH

000000200  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.9	1.4	1.1	.3	.1							6.9	4.5
NNE	4.3	2.4	.6	.9								8.7	4.3
NE	7.8	2.9	1.3	.9	.1							13.0	4.1
ENE	5.0	3.1	1.0									9.1	3.9
E	1.8	1.4	.3									3.6	3.8
ESE	.4	.1		.1								.7	4.2
SE	.2	.1										.3	3.0
SSE	.2	.2	.2	.1								.8	6.7
S	.3	.9	.7	.6								2.4	7.4
SSW	.5	1.0	1.0	.6								3.4	6.2
SW	1.0	.9	1.6	.7								4.1	6.9
WSW	.7	.3	.1	.6								1.7	6.7
W	.3	.2	.4	.4								1.4	7.3
WNW	.3	.2	.1	.1								.8	5.7
NW	.2		.1	.1								.4	6.8
NNW	1.6	.2	.1									1.9	3.1
VARBL	3.7	1.6	1.6	1.8	.1	.3						9.0	6.8
CALM												31.7	
	33.1	17.1	10.2	7.1	.3	.3						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

899

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/NAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID STATION NAME YEARS 68-77 MONTH NOV  
0300-0500 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	.9	.6	.3	.1							5.0	4.5
NNE	5.5	2.3	.8	.4	.1							9.1	4.0
NE	5.7	2.7	1.0	1.1	.1							10.6	4.6
ENE	4.2	2.7	.9	.1	.1							7.9	4.0
E	2.0	2.0	.3									4.3	3.7
ESE	.2	.3										.6	3.4
SE	.4	.2										.7	3.0
SSE	.3	.1		.3								.8	7.9
S	.3	1.6	.0	.3								3.0	6.3
SSW	.7	.8	1.1	.4								3.0	7.1
SW	.4	1.3	1.4	.7								3.9	7.5
WSW	.4	.6	.6		.1							1.7	6.1
W	.7	.4	.9	.3								2.3	6.9
WNW	.3	.1	.1	.3								.9	8.1
NW	.3	.7	.2	.2								.8	7.4
NNW	.9	.7	.3									1.9	3.9
VARBL	3.6	1.9	1.0	2.0	.2	.3						9.0	7.0
CALM												34.6	
	29.1	18.6	10.0	6.6	.8	.3						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

899



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TORREJUN AB SPAIN/MADRID STATION NAME YEARS 68-77  
ALL WEATHER CLASS  
NDV NORTH  
0600-0800 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	1.1	.6	.6								6.2	4.2
NNE	5.7	1.9	.9	.4								8.9	3.9
NE	4.6	1.7	1.0	.4								7.7	4.0
ENE	4.9	.9	.7	.1								7.6	3.5
E	2.8	1.2	.3	.1								4.4	3.5
ESE	.6	.2										.8	2.4
SE	.3		.1									.4	3.0
SSE	.4	.1	.1									.7	3.2
S	1.2	1.3	.8	.9		.1						4.3	7.1
SSW	.8	1.6	1.8	1.0								5.1	7.3
SW	.6	1.1	.9	.3	.1							3.0	6.7
WSW	.7	.8	.3	.3								2.2	6.6
W	1.0	.6	.7	.3								2.6	5.5
WNW		.2	.1									.3	6.3
NW		.3	.1									.4	5.3
NNW	1.2	.3		.1								1.7	3.4
VARBL	3.1	1.4	1.4	1.2	.7	.1						8.0	7.0
CALM												35.7	
	31.8	15.8	9.8	5.9	.9	.2						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AB SPAIN/MADRID STATION NAME 5877 YEARS NOV MONTH  
0900-1100 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.3	.4	1.0	.1	.1						3.2	8.1
NNE	2.0	.9	.8	.6	.1							4.3	5.5
NE	2.6	1.6	1.1	.7	.4							6.6	6.1
ENE	3.8	2.7	.9	1.0	.1							8.5	5.3
E	5.5	1.4	1.7									8.6	3.8
ESE	1.8	.3										2.1	2.3
SE	.7	.1										.8	2.6
SSE	1.7	.3	.3									2.3	3.0
S	2.1	1.1	.3	.7	.3							4.6	6.2
SSW	2.2	1.3	1.0	.4	.2							5.6	5.9
SW	1.3	.8	1.4	1.3	.2							5.6	8.3
WSW	.7	.3	1.1	.9								3.0	8.4
W	.6	.4	.3	.6								1.9	7.1
WNW	.1	.3	.2	.3								1.0	7.4
NW	.1	.3	.3									.8	6.4
NNW	.2		.1	.2								.6	7.0
VARBL	4.4	2.3	2.4	2.2	1.2	.4	.1					13.2	8.1
CALM												27.5	
	31.1	14.7	12.6	10.7	2.8	.4	.1					100.0	4.5

TOTAL: NUMBER OF OBSERVATIONS

899

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/1AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJUN AB SPAIN/MADRID YEARS 68-77 NOV MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	.7	2.2	.4	.2						5.3	10.3
NNE	.8	1.6	.6	.2	.3							3.4	6.6
NE	.7	1.1	1.3	1.1								4.2	8.0
ENE	1.4	2.0	1.6	.9								5.9	6.3
E	1.8	1.0	.7									3.4	3.9
ESE	.9	.4	.1									1.4	3.5
SE	.6			.3								.9	6.1
SSE	1.6	.3	.3	.1								2.3	3.5
S	3.7	1.9	1.6	.8	.2							7.6	5.0
SSW	3.1	2.9	1.6	.8		.1						8.4	5.5
SW	2.3	3.0	1.3	1.7	.2	.1						8.7	7.1
WSW	1.6	1.3	1.9	1.7	.1							6.6	7.6
W	.9	.8	.9	.8								3.3	7.2
WNW	.7	.4	.1	.9	.3							2.4	9.1
NW	.3	.2	.4	.1								1.1	6.3
NNW	.9	.3	.2	.3	.1							1.9	5.8
VARBL	6.0	4.1	3.8	3.6	1.4	.7						19.6	8.1
CALM												13.4	
	28.3	22.0	16.4	15.4	3.2	1.1						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/PAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJEN AB SPAIN/MADRID

68-77

YEARS

NDV  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.8	1.7	2.1	.4	.1						6.4	9.1
NNE	1.3	.7	1.0	.5	.3							3.7	6.9
NE	2.1	1.1	1.7	.8								5.7	6.2
ENE	1.3	.9	1.1	.9								4.2	6.7
E	.7	1.1	.8	.2								2.8	6.1
ESE	.7	.1										.8	2.4
SE	.7	.1			.1							.9	4.4
SSE	.3	.3	.3	.3	.1							1.4	8.2
S	1.1	1.6	1.0	.4	.1							4.1	5.9
SSW	2.4	2.1	1.3	.1								6.3	4.6
SW	2.3	3.4	2.6	1.8	.1							10.2	6.8
WSW	2.7	2.1	1.8	1.7	.2							8.4	6.8
W	2.7	1.0	1.1	.4								5.2	5.0
WNW	.6	.3	.6	1.2	.2							2.9	10.0
NW	.7	.4	.6	.3	.1							2.1	7.2
NNW	.4	.2	.7	.8	.1							2.2	9.1
VARBL	3.3	2.8	2.3	2.1	1.2	.7						12.4	8.5
CALM												20.1	
	25.0	19.1	18.4	13.6	3.0	.8						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TORREJON AB SPAIN/MADRID

68-77

YEARS

NOV  
MONTH

1800-2000  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.4	3.6	2.1	.9	.4	.2						12.7	5.7
NNE	3.2	3.6	1.2	.6								8.6	4.7
NE	2.1	2.7	1.8	.4	.1							7.1	5.8
ENE	1.1	1.8	1.6	.6								5.0	6.1
E	1.8	.8	.1	.1								2.8	3.8
ESE	.1		.1									.2	4.5
SE	.1			.1		.1						.3	12.0
SSE	.3	.2		.2								.8	6.7
S	.1	1.4	1.3	.2								3.1	6.6
SSW	1.0	.8	1.2	.7								3.7	6.8
SW	.9	1.2	1.1	.3								3.7	6.2
WSW	1.0	1.0	.8	.8	.2							3.8	7.5
W	1.1	.7	1.1	.8	.1							3.7	6.9
WNW	.4	.4	.6	.3								1.9	7.3
NW	1.0	.4	.2	.1								1.8	3.9
NNW	2.1	2.1	.4	.1								4.8	4.1
VARBL	3.8	1.7	2.6	1.7	.3	.2						10.1	7.0
CAIM												26.1	
	25.7	22.4	16.1	7.9	1.2	.6						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TORREJON AB SPAIN/MADRID STATION NAME 68-77 YEARS NOV MONTH

2100-2300  
HOURS (LST)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.3	1.6	1.7	.7	.1							8.3	5.0
NNE	4.8	3.2	.8	.4								9.2	4.2
NE	5.2	1.1	1.2									12.9	4.7
ENE	3.1	3.7	.8	.3	.1							8.0	4.6
E	1.4	1.6	.1									3.1	3.5
ESE		.1										.1	4.0
SE	.2				.1							.3	7.7
SSE	.2		.2		.1							.6	8.0
S	.6	1.0	.3	.7								2.6	7.1
SSW	1.1	1.7	1.3	.6								4.6	6.5
SW	.6	.8	1.3	.4								3.1	7.3
WSW	.3	.4	1.0	.6	.1							2.4	8.3
W	.3	.7	.1	.4								1.9	7.8
WNW	.2	.3	.3	.3								1.2	7.5
NW	.4	.4		.1	.1							1.1	6.0
NNW	1.0	.1	.4	.1								1.7	4.3
VARBL	4.8	1.4	1.9	1.6	.2	.2						10.1	6.1
CALM												28.8	
	22.6	22.3	11.4	7.8	.9	.2						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AR SPAIN/MADRID YEARS 64-77 NOV MONTH  
ALL WEATHER ALL HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	1.3	1.1	1.0	.2	.1						6.8	6.2
NNE	3.5	2.1	.8	.5	.1							7.0	4.6
NE	3.9	2.4	1.3	.8	.1							8.5	5.1
ENE	3.1	2.3	1.1	.5	.0							7.0	4.8
E	2.2	1.3	.5	.1								4.1	3.9
ESE	.0	.2	.0	.0								.8	3.0
SE	.4	.1	.0	.1	.0							.6	4.8
SSE	.5	.2	.2	.1	.0							1.2	5.2
S	1.2	1.2	.8	.6	.1							4.0	6.2
SSW	1.6	1.5	1.3	.6	.0							5.0	6.1
SW	1.2	1.6	1.5	1.0	.1							5.3	7.1
WSW	1.0	.9	.9	.8	.1							3.7	7.3
W	.9	.6	.7	.6								2.8	6.5
WNW	.3	.3	.3	.4	.1							1.4	8.3
NW	.4	.3	.3	.1	.0							1.1	6.1
NNW	1.0	.5	.3	.2	.0							2.1	4.9
VARBL	4.1	2.2	2.1	2.0	.7	.4	.0					11.4	7.5
CALM												27.2	
	29.1	19.0	13.1	9.4	1.6	.5	.0					100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 7197

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/TAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJEN AB SPAIN/MACRID STATION NAME 68-77 YEARS DEC MONTH

0000-0200  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.4	1.0	.4	1.1	1.0	.1						7.6	7.0
NNE	5.3	2.4	1.7	.3	.1							9.8	4.4
NE	6.0	3.3	1.6	.9	.3							12.4	4.9
ENE	4.7	1.9	.9									7.5	3.5
E	1.0	.9	.6									3.3	4.2
ESE	.2	.6	.1									1.0	4.1
SE	.3	.2										.5	3.0
SSE	.3	.3	.2	.3								1.2	4.9
S	.4	1.3	1.0	.0								3.3	6.7
SSW	.2	1.0	1.0	.1								2.3	6.5
SW	.6	.5	.5	.3	.6							2.7	9.6
WSW	1.1	.3	1.3	.3	.3							3.9	8.7
W	.3	.6	.4	.3	.1							1.8	7.1
WNW	.2	.2	.1	.1								.6	6.0
NW	.2		.2									.4	5.0
NNW	1.4	.2	.1	.1		.1						2.0	5.7
VARBL	2.5	1.1	1.1	.3								4.9	4.7
CALM												34.6	
	29.1	16.6	11.5	5.4	2.5	.2		.1				100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

930



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AP SPAIN/MADRID YEARS 68-77  
ALL WEATHER CLASS  
DEC MONTH  
0300-0500 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	2.0	.5	.7	.5	.2						7.0	6.6
NNE	5.5	2.2	1.3	.2	.1							9.2	4.0
NE	6.6	2.5	1.1	.3	.4							10.9	4.3
ENE	4.2	1.7	.5		.1							6.6	3.6
E	1.5	1.3	.2	.1								3.1	5.0
ESE	.4	1.0	.1									1.5	4.2
SE	.2											.2	2.0
SSE	.6	.6										1.3	3.4
S	.3	.8	1.1	.2								2.4	7.0
SSW	.6	1.0	1.1	.4								3.2	6.4
SW	.5	1.0	1.0	.1	.5							3.1	8.1
WSW	.2	.3	.9	1.1								3.0	8.1
W	.8	.3	.4	.6								2.2	6.9
WNW	.5	.1	.1	.2		.1						1.1	7.5
NW	.2	.2										.5	2.8
N'W	.5	.2	.3	.1	.1	.1						1.7	6.7
VARBL	3.0	1.0	.5	.5	.1	.1						5.4	5.1
CALM												37.6	
	23.7	16.1	9.1	4.9	1.9	.5						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011  
STATION

TURRENTIA AR SPAIN/MADRID

STATION NAME

6N-77

YEARS

DEC  
MONTH

0600-0800  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.5	2.0	.9	.9	.2	.2						7.7	5.8
NNE	5.9	2.2	1.0	.4								9.5	3.9
NE	2.5	2.3	1.1	.5	.3							7.1	5.3
ENE	5.2	1.2	.5	.1								7.0	3.2
E	2.4	1.8	.1	.2								4.5	3.9
ESE	.6	.4										1.1	3.5
SE	.1	.2	.1									.4	4.8
SSE	.3	.3										.6	3.5
S	1.1	.5	1.2	1.3								4.1	7.9
SSW	.6	.6	1.0	.4								2.7	7.0
SW	.4	.6	.6	1.0								2.7	8.6
WSW	.3	.4	1.0	.3	.1							2.2	8.0
W	.2	.3	.5	.3	.3							1.7	6.5
WNW	.2	.2	.2	.2	.3	.1						1.3	11.9
NW	.9	.1										.9	2.4
NNW	1.5	.3		.5	.3	.1						2.9	7.3
VARBL	2.5	.5	.5	.8	.1							4.6	5.5
CALM												39.0	
	29.0	14.2	8.9	7.0	1.4	.4						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

936

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURREJON AB SPAIN/MADRID YEARS 68-77 MONTH DEC  
0900-1100 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	.3	.6	1.5	.4						5.1	11.3
NNE	2.3	1.2	.6	.3	.1							4.9	5.6
NE	2.3	2.3	1.0	1.6	.2							7.7	6.3
ENE	4.4	3.0	1.7	1.0	.2							10.3	5.3
E	4.7	1.8	.6	.1								7.4	3.5
ESE	1.6	.6										2.3	2.8
SE	1.1	.3										1.4	2.6
SSE	.4	.4	.2									1.1	4.4
S	1.4	1.3	.6	.5	.4							4.3	6.6
SSW	1.1	1.0	1.9	1.0	.2							5.2	7.8
SW	1.2	.9	1.2	1.1	.3							4.6	7.6
WSW	.9	.4	.5	1.1	.2							3.2	8.5
W	.3	.3	.3	1.2	.1	.1						1.9	11.3
WNW	.5	.1	.1	.1	.1	.6						1.6	13.6
NW	.3	.1	.1	.1								.5	5.6
NNW	.2			.1	.1	.2						.6	13.5
VARBL	3.0	1.1	1.1	1.3	.6	.3						7.4	7.6
CALM												30.3	
	27.7	15.1	10.6	10.4	4.1	1.7						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING OFFICE  
ETAC/USAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 STATION NAME TURKEY, AE SPAIN/ADRIU YEARS 68-77 DEC MONTH

1200-1400  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	.5	.4	1.5	2.0	1.2						6.6	14.7
NNE	1.4	1.2	.2	.8	.2							3.8	6.6
NE	1.2	.5	1.2	2.6	.1							5.6	9.3
ENE	1.8	1.0	1.7	1.4	.3							6.2	7.6
E	2.6	1.5	.6	.1								4.9	4.2
ESE	1.2	.2										1.4	2.2
SE	.9	.3										1.2	2.5
SSE	1.2	.3	.2	.3								2.2	4.7
S	3.1	1.4	1.4	.1	.4							6.5	5.4
SSW	2.7	1.4	1.6	.3	.3							7.1	6.4
SW	3.3	1.7	1.6	1.2	.2	.3						8.4	6.7
WSW	2.7	1.2	.9	1.6	.4							6.8	7.1
W	1.6	.1	.5	1.1	.3	.1						3.1	9.9
WNW	.5	.3	.2	.5	.3	.4						2.4	11.7
NW	.2	.2	.2	.4								1.0	8.2
NNW	.4	.1	.1	.1								.8	4.4
VARL	4.3	2.5	3.5	1.9	1.1	.3						13.7	7.5
CALM												18.6	
	29.6	14.5	14.7	14.4	5.8	2.4						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKOT AP SPAIN/NADRID YEARS 68-77 DEC MONTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.3	1.6	5.0	1.9	.8						10.0	12.0
NNE	1.2	1.4	1.2	.1								3.9	5.5
NE	1.0	.9	2.0	1.2	.1							5.2	7.9
ENE	1.2	1.7	2.2	.5	.3							5.9	6.9
E	1.2	.9	.2	.1								2.4	4.2
ESE	.5	.2										.8	3.1
SE	.0	.2	.1									1.1	2.8
SSE	.4	1.0	.4	.2								2.0	5.7
S	2.4	1.2	.3	.5	.1	.1						4.6	5.1
SSW	3.3	1.7	.9	.3	.2							6.5	4.7
SW	3.0	2.3	.8	1.5	.4	.2	.1					8.3	7.4
WSW	2.7	1.1	1.4	1.1	.1							6.3	6.3
W	1.9	.9	1.2	.8	.4							5.2	6.9
WNW	.6	.1	.2	.0	.1	.3						2.2	11.4
NW	.5		.2	.2								1.0	6.0
NNW	.3	.5		.3		.1						1.8	6.4
VARBL	2.4	.9	2.0	2.6	.8							8.6	8.7
CALM												24.4	
	25.4	16.1	14.7	13.2	4.5	1.5	.1					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/AC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY AB SPAIN/ADRIU STATION NAME YEARS 65-77 MONTH DEC

1800-2000  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.5	3.3	2.2	2.7	.2	.2	.1					13.2	7.0
NNE	4.9	4.0	1.6	.4	.1	.1						11.2	4.7
NE	1.7	3.7	1.6	.2								7.8	5.7
ENE	2.2	1.4	1.0	.2	.1							4.8	5.0
E	1.4	.9	.2	.1								2.7	4.4
ESE	.9	.1										1.0	2.4
SE	.1	.2	.2									.5	5.4
SSE	.2	.1	.1	.2								1.2	5.1
S	.6	.0	.0	.3	.1							1.8	6.4
SSW	1.0	1.1	.6	1.0								3.7	6.9
SW	1.3	1.2	1.0	.9		.2	.1					4.6	7.8
WSW	1.3	.9	.5	1.2								3.9	7.1
W	.2	.4	.4	.6								1.8	8.5
WNW	.3	.2	.5	.3								1.4	7.2
NW	1.1	.4	.1	.2		.1						1.9	5.8
NNW	1.4	1.0	.1	.3	.2							3.0	5.7
VARBL	2.3	1.4	.8	1.4	.4							6.9	6.4
CALM												28.5	
	25.7	21.0	11.1	10.8	1.2	.6	.2					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING GROUP  
ETAC/USAF  
AIR WEATHER SERVICE/NAF

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TURKEY IS SPAIN/AD-10 YEARS 58-77 DEC MONTH  
2100-2300 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.7	1.2	1.4	1.2	.5	.1						8.4	6.9
NNE	4.5	3.7	1.3	.5	.1							10.1	4.7
NE	3.3	3.5	2.0	.4	.1							12.0	4.5
ENE	4.2	2.3	.5	.4								7.6	4.0
E	1.5	1.8	.2									3.5	4.0
ESE	.1	.4	.2									.9	5.6
SE	.2	.1	.1									.4	3.8
SSE	.2		.2	.1								.5	7.2
S	.6	.2	1.0	.3	.1							2.4	7.7
SSW	.4	1.4	.6	.2	.2							2.9	7.3
SW	.3	1.2	1.1	.9	.3							3.8	8.7
WSW	.2	1.0	.5	.2								2.9	8.4
W	.6	.5	.2	.1								1.5	5.1
WNW	.2	.1	.2	.1								.6	6.7
NW	.2	.1	.1	.1								.5	6.6
NNW	1.3	.4	.2	.2	.1							2.3	4.9
VARBL	5.9	2.5	1.1	.9	.3							7.6	5.8
CALM												31.9	
	27.2	20.5	11.7	6.7	1.8	.1						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/ETAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TURKEY AD SPAIN/ADADID STATION NAME 68-77 YEARS DEC MONTH

ALL WEATHER CLASS ALL HOURS (U.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.7	1.5	1.1	1.5	1.0	.4	.0					8.2	8.7
NNE	3.5	2.3	1.1	.4	.1	.0						7.8	4.6
NE	3.5	2.4	1.2	1.0	.2							8.6	5.6
ENE	3.5	1.8	1.2	.2	.1							7.0	4.8
E	2.1	1.4	.4	.1								4.0	4.0
ESE	.7	.5	.1									1.2	3.4
SE	.5	.2	.1									.7	3.1
SSE	.6	.4	.2	.1								1.3	5.1
S	1.2	.9	.6	.5	.1	.0						3.7	6.4
SSW	1.3	1.1	1.1	.5	.1							4.2	6.5
SW	1.3	1.2	1.0	.9	.3	.1	.0					4.8	7.7
WSW	1.2	.7	.9	1.0	.1							4.0	7.5
W	.7	.4	.2	.6	.1	.0						2.4	7.8
WNW	.4	.2	.2	.3	.1	.2						1.4	10.4
NW	.5	.1	.1	.1		.0						.8	5.5
NNW	1.0	.3	.1	.2	.1	.1		.0				1.9	6.3
VARBL	2.3	1.4	1.4	1.2	.4	.1						7.4	6.7
CALM												30.6	
	25.1	16.8	11.5	5.1	2.9	.9	.0	.0				100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

7440



DATA PROCESSING BRANCH  
ETAC/CSAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 14011 TERREJON AB SPAIN/ABANDU STATION NAME YEARS 68-78 MONTH ALL

ALL WEATHER CLASS HOURS (L.S.T.) ALL

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.4	1.1	1.2	.4	.1	.0					6.6	7.1
NNE	3.1	2.1	1.2	.5	.1	.0	.0					7.0	5.0
NE	3.1	2.4	1.7	.9	.1	.0						8.3	5.7
ENE	2.7	2.1	1.2	.2	.1	.0						6.7	5.4
E	1.9	1.5	.5	.1	.0							4.0	4.3
ESE	.7	.4	.1	.0	.0							1.3	3.7
SE	.2	.3	.2	.1	.0	.0						1.1	4.7
SSE	.7	.6	.3	.2	.0							1.7	5.3
S	1.3	1.5	1.0	.4	.1	.0						4.3	5.8
SSW	1.1	1.7	1.5	.6	.1	.0						5.1	6.5
SW	1.5	1.6	1.7	1.1	.1	.0	.0					5.6	7.6
WSW	1.0	1.3	1.4	1.1	.2	.0	.0					4.9	7.8
W	1.4	1.0	1.0	.3	.1	.0						3.7	6.7
WNW	.5	.4	.4	.3	.1	.0						1.8	7.2
NW	.2	.3	.2	.1	.0	.0						1.3	5.7
NNW	1.0	.6	.3	.2	.1	.0	.0					2.2	5.3
VARBL	4.7	3.5	4.1	2.3	.4	.1	.0					15.2	6.8
CALM												19.3	
	27.3	23.0	17.2	10.4	1.8	.4	.0	.0				100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 87476

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/VAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

14011 STATION TUREJTS AB SPAIN/ADAD10 YEARS 68-78 ALL NORTH

INSTRUMENT CLASS ALL HOURS (L.S.T.)

CIG 200 FT 1400 FT W/ VSBY 1/2 MI OR MORE

ADJUR VSBY 1/2 FT 2-1/2 MI - CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	.6	.1	.1								2.4	3.0
NNE	2.1	.9	.2	.1								3.2	3.1
NE	2.1	1.1	.1	.1	.2							3.7	4.6
ENE	2.3	.9	.2	.1	.0							3.4	3.3
E	2.1	.7	.2	.1								3.1	3.3
ESE	.3	.1										.9	2.5
SE	.4	.1	.1									.5	3.2
SSE	.5	.3	.1	.1								.9	4.2
S	1.2	2.3	1.5	.2	.1							6.1	5.3
SSW	2.4	4.3	4.3	4.2	.1							13.6	7.0
SW	1.0	2.9	4.4	2.6	.2							11.9	8.0
WSW	2.0	1.4	2.1	2.0	.2							7.7	7.8
W	1.1	.4	.3	.4	.0							2.2	5.8
WNW	.2	.1	.1	.1								.5	5.0
NW	.5	.0		.0	.0							.6	3.3
NNW	.7	.3	.1									1.1	3.0
VARBL	2.2	1.0	1.1	1.1	.2	.1	.1					5.7	7.1
CALM												32.4	
	24.6	17.4	15.2	9.1	1.2	.1	.1					100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 3401

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART D

CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 1800												
≥ 1500												
≥ 1200												
≥ 1000												
≥ 900												
≥ 800												
≥ 700												
≥ 600												
≥ 500												
≥ 400												
≥ 300												
≥ 200												
≥ 100												
0												

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

# ADDITIONAL EXAMPLES

## EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

## EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but,  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/TAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TAFKED, SPAIN/ABRID  
STATION NAME

9-7

141  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING		41.0	49.1	50.1	51.7	51.7	52.4	52.4	52.6	52.6	52.7	52.8	52.8	52.8	52.8	52.9
≥ 20000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 18000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 16000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 14000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 12000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 10000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 9000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 8000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 7000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 6000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 5000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 4500		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 4000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 3500		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 3000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 2500		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 2000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 1800		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 1500		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 1200		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 1000		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 900		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 800		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 700		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 600		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 500		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 400		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 300		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 200		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 100		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7
≥ 0		52.7	52.9	53.9	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7

TOTAL NUMBER OF OBSERVATIONS 030

DATA RECORD  
USAF ETAC  
AIR FATHER SERVICE/AC

# CEILING VERSUS VISIBILITY

14011 T. 2.5 J. 0. A. SPAIN/ AD. 10 9-71

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0.300-0.500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .02	≥ 0
NO CEILING		47.6	48.2	41.1	49.0	42.6	5.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000		30.5	50.2	51.1	52.1	52.9	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 18000		30.5	51.1	51.1	53.1	53.1	53.5	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 16000		30.5	51.1	51.1	53.1	53.1	53.5	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 14000		30.5	51.1	51.1	53.1	53.1	53.5	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 12000		31.2	51.1	52.4	52.7	53.7	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 10000		31.7	52.1	53.1	54.0	54.6	55.1	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 9000		32.6	52.3	53.7	55.3	55.3	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 8000		35.4	55.3	56.7	58.2	58.3	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 7000		35.4	55.3	56.7	58.2	58.3	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 6000		35.4	55.3	56.7	58.2	58.3	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 5000		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 4500		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 4000		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 3500		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 3000		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 2500		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 2000		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 1800		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 1500		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 1200		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 1000		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 900		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 800		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 700		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 600		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 500		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 400		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 300		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 200		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 100		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 0		37.1	59.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3

TOTAL NUMBER OF OBSERVATIONS 930



# CEILING VERSUS VISIBILITY

DATA FROM SURVEY  
USAF ETAC  
AIR EATER SERVICE/AC

STATION NAME 14011 T 0630 S IN/ 0100 DATE 19-7 MONTH JA YEAR 1960

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING ≥ 20000		47.4	42.0	48.0	49.1	40.1	4.4	49.6	49.7	49.7	49.7	49.9	49.9	49.9
≥ 18000		50.4	50.0	51.1	51.1	51.9	52.2	52.4	52.5	52.6	52.6	52.8	52.8	52.8
≥ 16000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	52.9	53.1	53.1	53.1
≥ 14000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	52.9	53.1	53.1	53.1
≥ 12000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 10000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 9000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 8000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 7000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 6000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 5000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 4500		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 4000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 3500		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 3000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 2500		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 2000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 1800		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 1500		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 1200		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 1000		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 900		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 800		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 700		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 600		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 500		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 400		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 300		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 200		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 100		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2
≥ 0		50.4	50.0	51.2	52.0	52.3	52.5	52.7	52.8	52.9	53.0	53.2	53.2	53.2

TOTAL NUMBER OF OBSERVATIONS 930



DATA PLACES TO BE FRA CT  
USAF ETAC  
AIR FATHER SERVICE/AC

# CEILING VERSUS VISIBILITY

14011  
STATION

T. BREJ... SPAIN/...  
STATION NAME

19-7

JA  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
TIME

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING		42.7	42.9	43.3	44.2	44.2	44.6	45.1	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 20000		4.7	48.3	49.4	50.7	50.7	51.1	51.7	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 18000		40.1	49.3	49	51.1	51.1	51.6	52.1	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 16000		40.1	49.4	50.1	51.2	51.2	51.8	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 14000		40.2	49.2	50.6	51.3	51.3	51.9	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 12000		40.7	50.3	51.1	52.2	52.2	52.6	53.2	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 10000		40.8	50.4	51.4	52.3	52.3	53.3	53.8	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 9000		40.7	51.2	51.3	53.3	53.3	53.7	54.3	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 8000		42.7	54.3	55.3	57.1	57.1	57.5	58.0	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 7000		43.3	56.4	57.3	59.7	59.7	60.7	60.9	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 6000		45.6	62.4	63.4	66.0	66.0	67.0	67.2	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 5000		46.8	67.1	68.4	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 4500		47.6	68.4	69.4	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 4000		48.0	69.4	69.4	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 3500		48.1	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 3000		48.3	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 2500		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 2000		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 1800		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 1500		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 1200		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 1000		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 900		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 800		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 700		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 600		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 500		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 400		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 300		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 200		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 100		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 0		48.4	69.7	69.7	69.1	69.1	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1

TOTAL NUMBER OF OBSERVATIONS 929

DATA PREPARED BY  
USAF ETAC  
AIR CARRIER SERVICE/ IAC

# CEILING VERSUS VISIBILITY

14011  
STATION

T R I E U N A P SPAIN/ A F I L D  
STATION NAME

9-7

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES																		
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000		42.5	43.3	44.5	45.3	45.3	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 18000		51.5	51.5	52.3	53.3	53.3	53.5	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 16000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 14000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 12000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 10000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 9000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 8000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 7000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 6000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 5000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 4500		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 4000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 3500		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 3000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 2500		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 2000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 1800		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 1500		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 1200		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 1000		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 900		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 800		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 700		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 600		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 500		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 400		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 300		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 200		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 100		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 0		52.4	52.7	53.7	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING SECTION  
USAF ETAC  
AIR EATER SERVICE/NAO

# CEILING VERSUS VISIBILITY

14011  
STATION

T RNE 71 00 SPAIN/ADRIU  
STATION NAME

19-71

JA 1

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≤ 0
NO CEILING		41.8	42.2	42.2	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 20000		30.6	51.1	22.2	52.2	52.2	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 18000		32.7	52.7	53.4	53.7	53.7	53.9	53.9	54.0	54.0	54.0	54.0	54.0
≥ 16000		22.7	52.7	23.7	53.7	53.7	53.9	53.9	54.0	54.0	54.0	54.0	54.0
≥ 14000		52.4	53.1	53.7	54.1	54.1	54.2	54.2	54.3	54.3	54.3	54.3	54.3
≥ 12000		23.1	53.1	54.1	54.7	54.7	54.9	54.9	55.1	55.1	55.1	55.1	55.1
≥ 10000		24.5	55.5	56.2	56.6	56.6	56.8	56.8	56.9	56.9	56.9	56.9	56.9
≥ 9000		25.5	57.4	57.4	58.7	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.0
≥ 8000		27.5	59.1	61.5	62.1	62.1	62.4	62.4	62.5	62.5	62.5	62.5	62.5
≥ 7000		32.8	63.3	64.1	65.4	65.4	65.7	65.7	65.8	65.8	65.8	65.8	65.8
≥ 6000		37.3	64.1	65.1	66.1	66.1	66.5	66.5	66.6	66.6	66.6	66.6	66.6
≥ 5000		34.2	65.2	66.2	66.2	66.2	67.1	67.1	67.2	67.2	67.2	67.2	67.2
≥ 4500		36.9	68.0	69.1	69.1	69.1	69.6	69.6	69.9	69.9	69.9	69.9	69.9
≥ 4000		32.6	70.2	71.5	72.2	72.2	72.5	72.5	72.6	72.6	72.7	72.7	72.7
≥ 3500		71.2	72.4	73.6	74.1	74.1	74.4	74.4	74.5	74.6	74.6	74.6	74.6
≥ 3000		74.1	77.4	78.4	79.1	79.1	79.4	79.4	79.5	79.6	79.6	79.6	79.6
≥ 2500		79.7	81.1	82.4	83.1	83.1	83.5	83.5	83.7	83.8	83.8	83.8	83.8
≥ 2000		81.5	83.2	84.4	85.7	85.7	86.2	86.2	86.3	86.5	86.5	86.5	86.5
≥ 1800		82.4	84.1	85.4	86.7	86.7	87.3	87.3	87.4	87.5	87.5	87.5	87.5
≥ 1500		84.2	85.8	87.1	88.9	88.9	89.4	89.4	89.9	89.9	90.1	90.1	90.1
≥ 1200		84.8	87.4	88.6	91.1	91.1	91.3	91.3	91.8	91.8	92.0	92.0	92.0
≥ 1000		85.4	87.8	89.1	92.1	92.1	92.7	92.7	94.1	94.1	94.4	94.4	94.4
≥ 900		85.5	88.2	91.4	93.7	93.7	94.6	94.6	95.5	95.5	95.7	95.7	95.7
≥ 800		86.0	88.3	91.3	94.1	94.1	95.1	95.1	96.1	96.1	96.3	96.3	96.3
≥ 700		86.1	88.4	91.5	94.1	94.1	95.6	95.6	96.8	96.8	97.0	97.0	97.0
≥ 600		85.2	88.3	91.4	94.0	94.0	95.7	95.7	97.4	97.4	97.6	97.6	97.6
≥ 500		86.2	88.5	91.7	94.7	94.7	95.8	95.8	97.6	97.6	98.4	98.4	98.4
≥ 400		86.2	88.5	91.4	94.3	94.3	96.0	96.0	97.8	97.8	99.0	99.0	99.0
≥ 300		86.2	88.5	91.4	94.3	94.3	96.0	96.0	97.8	97.8	99.0	99.0	99.0
≥ 200		86.2	88.5	91.4	94.3	94.3	96.0	96.0	97.8	97.8	99.0	99.0	99.0
≥ 100		86.2	88.5	91.4	94.3	94.3	96.0	96.0	97.8	97.8	99.0	99.0	99.0
≥ 0		86.2	88.5	91.4	94.3	94.3	96.0	96.0	97.8	97.8	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING  
USAF ETAC  
AIR FATHER SERVICE/AF

# CEILING VERSUS VISIBILITY

14011

T. P. REJAN

9-7

7-7

JA 12

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 0
NO CEILING																
≥ 20000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 18000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 16000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 14000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 12000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 10000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 9000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 8000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 7000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 6000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 5000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 4500	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 4000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 3500	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 3000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 2500	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 2000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 1800	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 1500	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 1200	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 1000	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 900	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 800	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 700	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 600	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 500	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 400	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 300	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 200	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 100	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 0	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PREPARED BY  
USAF ETAC  
AIR EATER SERVICE/ IAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TORREJO AR SPAIN/ ALDID

19-71

JA

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING, FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	> 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING																
≥ 20000	46.0	47.0	47.0	47.0	49.0	49.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 18000	51.0	51.0	51.0	51.0	54.0	54.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 16000	51.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 14000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 12000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 10000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 8000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 7000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 6000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 5000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 4500	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 4000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 3500	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 3000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 2500	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 2000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 1800	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 1500	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 1200	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 1000	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 800	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 700	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 600	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 500	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 400	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 300	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 200	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 100	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 0	52.0	52.0	52.0	54.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC 0-14-5 (OL A) PREV US EDITIONS OF THIS FORM ARE OBSOLETE



DATA RECEIVED FROM  
USAF ETAC  
AIR RAIDER SERVICE/AC

# CEILING VERSUS VISIBILITY

14011 T RUEJ W SPAIN/ADOLIC  
STATION NAME

9-7

JAL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

CEILING (1331)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	45.2	45.8	46.4	47.3	47.3	47.6	47.8	47.9	47.9	47.9	48.0	48.0	48.0	48.0	48.0	48.0
≥ 20000	51.7	51.7	52.1	53.0	53.0	53.4	53.5	53.6	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8
≥ 18000	51.3	51.7	52.6	53.7	53.7	54.0	54.2	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 16000	51.3	51.7	52.7	53.7	53.7	54.0	54.2	54.3	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5
≥ 14000	51.3	51.7	52.7	53.7	53.7	54.0	54.2	54.3	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5
≥ 12000	52.0	52.4	53.4	54.4	54.4	54.7	54.9	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 10000	52.5	53.3	54.3	55.4	55.4	55.7	55.9	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 9000	53.7	54.2	55.2	56.2	56.2	56.6	56.8	56.9	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1
≥ 8000	57.0	57.5	58.4	59.4	59.4	59.8	59.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 7000	60.0	60.7	62.1	63.2	63.2	63.6	63.8	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 6000	60.7	61.4	62.4	63.4	63.4	63.9	64.1	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 5000	61.4	62.1	63.1	64.1	64.1	64.6	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 4000	62.5	63.3	64.3	65.3	65.3	65.8	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 3000	64.1	64.9	66.2	67.2	67.2	67.6	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 2000	66.0	66.6	68.1	69.1	69.1	69.5	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 1800	70.1	70.1	71.0	72.0	72.0	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 1600	72.1	72.9	74.3	75.4	75.4	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 1400	74.6	75.5	77.4	79.5	79.5	79.9	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 1200	76.2	76.2	77.1	78.1	78.1	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 1000	77.4	78.3	79.7	81.7	81.7	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 900	78.1	78.5	80.1	82.1	82.1	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 800	80.1	81.2	82.7	85.5	85.5	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 700	82.1	82.1	84.9	88.1	88.1	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 600	82.6	82.6	85.5	88.9	88.9	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 500	83.2	83.2	86.4	90.1	90.1	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 400	84.9	84.9	88.1	91.7	91.7	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 300	86.4	86.4	89.7	93.1	93.1	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 200	88.1	88.1	91.2	94.2	94.2	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 100	89.7	89.7	92.7	95.9	95.9	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 0	91.0	91.0	94.1	97.3	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 0	91.0	91.0	94.1	97.3	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS 7439

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING  
USAF ETAC  
AIR TRAFFIC SERVICE/ATAC

# CEILING VERSUS VISIBILITY

14011

TAFS/ALM/ALM/ALM

9-7

FEET

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 18000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 16000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 14000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 12000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 10000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 8000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 6000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 4000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 3500		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 3000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 2500		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 2000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 1800		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 1500		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 1200		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 1000		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 900		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 800		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 700		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 600		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 500		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 400		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 300		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 200		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 100		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 0		59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1

TOTAL NUMBER OF OBSERVATIONS 146

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







DATA PRESENTATION  
USAF ETAC  
AIR FIGHTER SERVICE/ MC

# CEILING VERSUS VISIBILITY

14011

TAKRUJ, A, SPAIN/ ALADU

9-7

FEA

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	2.0
NO CEILING	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 20000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 18000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 16000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 14000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 12000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 10000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 9000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 8000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 7000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 6000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 5000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 4500	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 4000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 3500	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 3000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 2500	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 2000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 1800	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 1500	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 1200	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 1000	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 800	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 700	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 600	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 500	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 400	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 300	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 200	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 100	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 0	51.6	51.2	51.1	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS 546

# CEILING VERSUS VISIBILITY

DATA PR CUS.I 7 A C  
USAF ETAC  
AIR FATHER SEIVIC/ AC

17047

**T R I E D A S P I N A L D I S C H E A P**

Figure 1

三

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS 845

USAF ETAC  
AS  
0.14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURRENT, AP SPAIN/MADRID

09-76

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS UTC

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		46.7	46.3	45.4	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 18000		57.1	57.4	56.1	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 16000		57.3	57.7	58.3	58.9	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 14000		57.3	57.7	58.3	58.9	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 12000		57.4	57.9	58.4	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 10000		58.6	59.4	59.5	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 9000		60.9	61.2	61.4	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 8000		61.5	61.9	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 7000		65.0	65.4	65.2	66.0	66.0	66.0	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 6000		67.1	67.6	68.4	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 5000		67.1	67.6	68.4	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 4500		67.8	68.3	69.1	69.7	69.7	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 4000		71.0	71.5	72.3	72.9	72.9	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 3500		73.0	73.5	74.3	74.9	74.9	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 3000		79.7	80.1	81.1	81.8	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2500		84.3	84.6	86.4	87.2	87.2	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 2000		7.7	88.3	90.1	90.9	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1800		68.3	88.9	90.9	91.0	91.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1500		90.4	91.0	93.2	94.4	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000		91.4	92.3	94.8	96.1	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 900		92.2	93.3	95.9	97.3	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800		92.4	93.4	96.0	97.4	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 300		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 200		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 100		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 0		92.7	93.7	96.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0

246

TOTAL NUMBER OF OBSERVATIONS

DATA PROCESSING CENTER  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURRETT AR SPAIN/MADRID  
STATION NAME

09-75  
YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS UT

CEILING (FEET)	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .5	≥ .5	≥ .5	≥ 0
NO CEILING		49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 2000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1800		51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 1600		51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 1400		51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 1200		52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 1000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 800		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 700		57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 600		73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 500		74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 450		75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 400		77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 350		81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 300		87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 250		89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 200		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 180		92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 150		95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 120		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 100		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 80		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 60		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 40		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 30		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 20		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 100		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
0		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5

TOTAL NUMBER OF OBSERVATIONS 8

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAF

# CEILING VERSUS VISIBILITY

14011 STATION TURREJER AB SPAIN/MADRID 69-78 YEAR MONTH FEB 1800-2000 HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .16	≥ 0
NO CEILING ≥ 2000		55.1 65.4	56.1 65.7	56.3 65.8	56.3 65.8	56.3 65.8	56.3 65.8	56.3 65.8	56.3 65.8	56.3 65.8	56.3 65.8	56.3 65.8	56.3 65.8
≥ 18000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 16000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 14000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 12000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 10000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 9000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 8000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 7000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 6000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 5000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 4500		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 4000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 3500		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 3000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 2500		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 2000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 1800		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 1500		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 1200		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 1000		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 900		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 800		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 700		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 600		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 500		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 400		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 300		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 200		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 100		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5
≥ 0		65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5	65.5 65.5

TOTAL NUMBER OF OBSERVATIONS 846

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY AF SPAIN/MADRID  
STATION NAME

9-76  
YEAR

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING		61.0	61.0	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 20000		67.8	67.8	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 18000		68.0	68.0	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000		68.0	68.0	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 14000		68.0	68.0	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000		68.4	68.4	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 10000		70.1	70.1	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 9000		73.0	73.0	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 8000		77.4	77.4	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 7000		81.0	81.0	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 6000		82.7	82.7	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 5000		83.3	83.3	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 4500		84.5	84.5	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 4000		86.3	86.3	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 3500		87.1	87.1	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 3000		89.5	89.5	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2500		91.9	91.9	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2000		93.0	93.0	93.9	94.1	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1800		94.2	94.2	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1500		95.7	95.7	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200		96.7	96.7	97.5	97.6	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1000		97.6	97.6	98.5	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8
≥ 900		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 200		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 100		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 0		97.6	97.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 246



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

14011

TURKEY AB SPAIN/PAKID

9-73

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1ST

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING ≥ 20000		52.6	53.0	53.4	53.7	53.7	53.7	53.8	53.9	53.9	53.9	53.9	53.9	53.9
≥ 18000		50.8	51.1	51.7	52.0	52.0	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.3
≥ 16000		51.1	51.4	52.0	52.3	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.6
≥ 14000		51.3	51.6	52.0	52.3	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.6
≥ 12000		51.0	51.2	52.0	52.3	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.7
≥ 10000		53.6	53.9	54.5	54.8	54.8	54.9	55.0	55.0	55.0	55.1	55.1	55.1	55.1
≥ 9000		54.0	55.2	55.7	56.0	56.0	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.4
≥ 8000		52.9	59.3	69.9	70.3	70.3	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.7
≥ 7000		72.0	73.2	73.9	74.3	74.3	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.7
≥ 6000		73.2	73.8	74.5	74.9	75.0	75.0	75.2	75.2	75.2	75.3	75.3	75.3	75.3
≥ 5000		74.1	74.4	75.1	75.5	75.5	75.5	75.7	75.8	75.8	75.9	75.9	75.9	75.9
≥ 4500		75.0	75.4	76.1	76.5	76.5	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.9
≥ 4000		74.0	77.2	78.0	78.4	78.4	78.4	78.6	78.7	78.7	78.7	78.7	78.7	78.8
≥ 3500		78.3	79.2	79.9	80.3	80.3	80.3	80.5	80.6	80.6	80.6	80.6	80.6	80.7
≥ 3000		82.5	82.9	83.8	84.2	84.2	84.2	84.4	84.5	84.5	84.6	84.6	84.6	84.6
≥ 2500		85.1	85.5	86.5	87.1	87.2	87.2	87.3	87.4	87.4	87.5	87.5	87.5	87.5
≥ 2000		87.1	87.5	88.7	89.3	89.3	89.3	89.5	89.6	89.6	89.7	89.7	89.7	89.7
≥ 1800		87.7	88.1	89.3	90.0	90.0	90.0	90.2	90.3	90.3	90.3	90.3	90.3	90.4
≥ 1500		89.9	90.3	91.8	92.3	92.3	92.3	92.5	92.7	92.8	92.9	92.9	92.9	93.0
≥ 1200		91.1	91.7	93.2	94.1	94.1	94.1	94.4	94.5	94.5	94.6	94.6	94.6	94.6
≥ 1000		92.2	92.8	94.5	95.7	95.7	95.7	96.0	96.1	96.1	96.2	96.2	96.2	96.3
≥ 900		92.4	93.1	94.8	96.2	96.2	96.2	96.5	96.7	96.7	96.8	96.8	96.8	96.8
≥ 800		92.7	93.4	95.1	96.0	96.0	96.0	96.6	97.0	97.1	97.2	97.2	97.2	97.3
≥ 700		92.8	93.6	95.4	97.0	97.0	97.0	97.4	97.6	97.7	97.7	97.7	97.7	97.7
≥ 600		93.0	93.6	95.5	97.3	97.3	97.3	97.4	97.8	98.1	98.2	98.2	98.2	98.3
≥ 500		93.0	93.7	95.7	97.6	97.6	97.6	97.7	98.2	98.6	98.7	98.7	98.7	98.8
≥ 400		93.0	93.7	95.7	97.7	97.7	97.7	97.8	98.4	98.8	98.9	99.0	99.0	99.1
≥ 300		93.1	93.7	95.7	97.7	97.7	97.7	97.8	98.5	98.9	99.0	99.2	99.2	99.3
≥ 200		93.1	93.7	95.7	97.7	97.7	97.7	97.8	98.5	98.9	99.0	99.3	99.3	99.3
≥ 100		93.1	93.7	95.7	97.7	97.7	97.7	97.8	98.5	98.9	99.0	99.3	99.3	99.3
0		93.1	93.7	95.7	97.7	97.7	97.7	97.8	98.5	98.9	99.0	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 6768

FORM  
JUL 64

USAF ETAC

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY AIR SPAIN/MAURID  
STATION NAME

08-77  
YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS U.S.

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING ≥ 20000	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 18000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 16000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 14000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 12000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 10000	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 9000	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 8000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 7000	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 6000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 5000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4500	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 3500	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2500	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 2000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1500	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 700	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 500	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 400	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 300	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 200	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 100	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING SECTION  
USAF ETAC  
AIR WEATHER SERVICE/4AC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURREJON AB SPAIN/MADRID

68-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
COURS H ST

CEILING 'FEET'	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1.3	≥ 1.2	≥ 1.1	≥ 1.0	≥ .9	≥ .8	≥ 0
NO CEILING		61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 20000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 18000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 16000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 14000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 12000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 10000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 9000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 8000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 7000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 6000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 5000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 4500		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 4000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 3500		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 3000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 2500		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 2000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 1800		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 1500		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 1200		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 1000		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 900		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 800		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 700		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 600		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 500		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 400		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 300		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 200		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 100		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 0		66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING WKA, CA  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TURKISH IS SPAIN/PADRIO

1977

MAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING															
≥ 20000	52.4	53.0	53.4	53.4	54.1	54.2	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 18000	60.9	61.4	62.3	62.3	62.7	62.8	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 16000	61.0	61.5	62.4	62.4	62.8	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 14000	61.0	61.5	62.4	62.4	62.8	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 12000	61.1	61.6	62.5	62.5	62.9	63.0	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 10000	61.1	61.6	62.5	62.5	62.9	63.0	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 9000	62.0	63.4	64.3	64.3	64.7	64.8	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 8000	64.0	64.5	65.4	65.4	65.8	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 7000	70.0	70.6	71.4	71.4	72.3	72.4	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 6000	73.7	74.3	75.2	75.2	75.9	76.0	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 5000	74.4	75.1	76.2	76.2	76.8	76.9	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 4500	77.0	77.7	78.9	78.9	79.0	79.6	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000	79.6	80.4	81.6	81.6	82.4	82.5	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 3500	79.6	80.4	81.7	81.7	82.5	82.6	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3000	81.0	81.8	83.3	83.3	84.2	84.3	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 2500	84.0	85.1	86.6	86.6	87.5	87.5	87.8	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2000	85.0	87.0	88.5	88.5	89.5	89.5	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	86.9	88.3	90.1	90.1	91.2	91.2	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1600	87.2	88.6	90.5	90.5	91.6	91.6	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1500	89.5	89.9	91.8	91.8	93.0	93.0	93.8	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1200	87.8	91.2	93.2	93.2	94.4	94.4	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000	90.1	91.7	93.8	93.8	95.1	95.1	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 900	90.5	92.2	94.3	94.3	95.6	95.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	90.8	92.5	94.0	94.0	96.2	96.2	97.2	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700	90.9	92.6	94.9	94.9	96.7	96.7	97.7	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	90.9	92.6	94.9	94.9	96.9	96.9	97.4	97.4	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	90.9	92.7	95.1	95.1	97.0	97.0	97.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 400	91.0	92.8	95.2	95.2	97.1	97.1	97.6	97.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	91.0	92.8	95.2	95.2	97.1	97.1	97.6	97.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	91.0	92.8	95.2	95.2	97.1	97.1	97.6	97.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	91.0	92.8	95.2	95.2	97.1	97.1	97.6	97.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	91.0	92.8	95.2	95.2	97.1	97.1	97.6	97.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING PLANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURRETT AB SPAIN/MADRID

8-77

YEAR

MAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

MOON

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .16	≥ .1	≥ 0
NO CEILING		47.2	47.5	48.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.7	48.7	48.7
≥ 20000		59.2	59.7	60.5	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.4	61.4	61.4
≥ 18000		60.4	61.0	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.8	62.8	62.8
≥ 16000		60.4	61.0	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.8	62.8	62.8
≥ 14000		60.8	61.3	62.5	62.8	62.8	62.8	62.8	62.8	62.8	62.8	63.1	63.1	63.1
≥ 12000		61.5	62.0	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.9	63.9	63.9
≥ 10000		64.1	64.8	65.0	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.5	66.5	66.5
≥ 9000		65.3	65.8	67.1	67.6	67.6	67.6	67.7	67.7	67.7	67.7	68.0	68.0	68.0
≥ 8000		69.6	70.1	71.7	72.0	72.0	72.0	72.2	72.2	72.2	72.2	72.4	72.4	72.4
≥ 7000		74.3	75.1	76.8	77.2	77.2	77.2	77.5	77.5	77.5	77.5	77.7	77.7	77.7
≥ 6000		74.7	75.3	77.2	77.7	77.7	77.7	78.0	78.0	78.0	78.0	78.2	78.2	78.2
≥ 5000		74.9	77.7	79.5	80.8	80.8	80.8	81.1	81.1	81.1	81.1	81.4	81.4	81.4
≥ 4500		77.7	78.6	80.3	81.0	81.0	81.0	81.2	81.2	81.2	81.2	81.4	81.4	81.4
≥ 4000		79.0	79.9	81.7	82.4	82.4	82.4	82.6	82.6	82.6	82.6	82.8	82.8	82.8
≥ 3500		81.4	82.4	84.2	84.8	84.8	84.8	85.1	85.1	85.1	85.1	85.3	85.3	85.3
≥ 3000		84.0	85.1	86.3	87.6	87.6	87.6	87.8	87.8	87.8	87.8	88.1	88.1	88.1
≥ 2500		85.7	87.0	89.0	89.9	89.9	89.9	90.2	90.2	90.2	90.2	90.4	90.4	90.4
≥ 2000		86.9	88.2	90.4	91.2	91.2	91.2	91.6	91.6	91.6	91.6	91.8	91.8	91.8
≥ 1800		87.1	88.4	90.4	91.6	91.6	91.6	91.9	91.9	91.9	91.9	92.2	92.2	92.2
≥ 1500		89.2	89.9	92.4	93.2	93.2	93.2	93.5	93.5	93.5	93.5	93.8	93.8	93.8
≥ 1200		89.5	91.0	94.2	95.2	95.2	95.2	95.6	95.6	95.6	95.6	96.1	96.1	96.1
≥ 1000		90.2	91.6	95.1	96.1	96.1	96.1	96.5	96.5	96.5	96.5	97.4	97.4	97.4
≥ 900		90.9	92.4	95.6	96.9	96.9	96.9	97.2	97.2	97.2	97.2	98.2	98.2	98.2
≥ 800		90.9	92.5	95.7	97.1	97.1	97.1	97.5	97.5	97.5	97.5	98.5	98.5	98.5
≥ 700		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6
≥ 600		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6
≥ 500		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6
≥ 400		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6
≥ 300		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6
≥ 200		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6
≥ 100		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6
≥ 0		90.9	92.5	95.8	97.2	97.2	97.2	97.6	97.6	97.6	97.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 530

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 10-64

DATA PROCESSING IN A C M  
USAF ETAC  
AIR WEATHER SERVICE/NAF

# CEILING VERSUS VISIBILITY

14011  
STATION

T. R. K. E. J. T. A. B. SPAIN/ADKID  
STATION NAME

18-77

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 0
NO CEILING ≥ 20000		46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥ 18000		59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 16000		61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 14000		61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 12000		61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 10000		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 9000		66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 8000		67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 7000		71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 6000		75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 5000		76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 4500		78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 4000		79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 3500		81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3000		84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500		91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1800		96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1500		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1200		96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900		97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 800		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 700		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 600		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 500		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 400		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 300		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 200		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 100		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
0		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/11AC

# CEILING VERSUS VISIBILITY

14011 TURRET L. AP SPAIN/11ADK10

8-77

TERM

MAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 18000		58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 16000		60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 14000		60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 12000		61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 10000		65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 9000		66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 8000		72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 7000		77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000		78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 5000		79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 4500		81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4000		84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 3500		88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3000		93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 2500		96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2000		97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1800		97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1500		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1000		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 900		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 600		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 500		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 400		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 300		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 200		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 100		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 0		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5

TOTAL NUMBER OF OBSERVATIONS

930



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURRET V A0 SPAIN/ "AURID"

08-77

STATION NAME

YR

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING FEET.	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ 0
NO CEILING		53.2	53.2	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 20000		62.7	62.7	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 18000		64.0	64.0	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 16000		64.2	64.2	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 14000		64.5	64.5	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 12000		65.7	65.7	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 10000		68.3	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 9000		70.2	70.2	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 8000		73.7	73.7	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 7000		79.1	79.1	79.3	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 6000		80.1	80.1	80.4	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 5000		82.9	82.9	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4500		84.7	84.7	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4000		86.8	86.8	87.3	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3500		88.9	88.9	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3000		92.5	92.5	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 2500		94.3	94.3	95.2	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000		95.3	95.3	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1800		95.7	95.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500		96.5	96.6	97.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1200		96.9	97.0	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000		97.0	97.2	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900		97.0	97.2	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800		97.0	97.2	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		97.0	97.2	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600		97.0	97.2	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500		97.0	97.2	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400		97.1	97.3	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300		97.1	97.3	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		97.1	97.3	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		97.1	97.3	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0		97.1	97.3	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAF

# CEILING VERSUS VISIBILITY

140117 TURKEY AIR SPAIN/AMKIP

3-77

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 18000		67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000		67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 14000		67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 12000		68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000		68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 9000		70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 8000		72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 7000		78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 6000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 5000		84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4500		87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 4000		89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 3500		89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 3000		90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 2500		93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 2000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1800		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1500		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1200		98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000		98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING INSTRUCTIONS  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# CEILING VERSUS VISIBILITY

14011 TUREVIL AFB SPAIN/AFBID 08-77 MONTH MAY

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING ≥ 20000	53.0	53.9	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000	52.0	53.0	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 16000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 14000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 10000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 9000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 8000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 7000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 6000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 5000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 4500	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 4000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 3500	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 3000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 2500	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 2000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 1800	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 1500	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 1200	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 1000	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 900	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 800	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 700	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 600	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 500	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 400	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 300	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 200	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 100	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 0	52.7	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2

TOTAL NUMBER OF OBSERVATIONS 7640



DATA PROCESSING TAXAC  
USAF ETAC  
AIR WEATHER SERVICE/NAAC

# CEILING VERSUS VISIBILITY

14011 T. KREJCIAN AR SPAIN/MADRID STATION NAME 48-77 YEARS MONTH APR 0000-0200 HOURS TEST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	54.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 20000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 18000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 16000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 14000	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 12000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 10000	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 9000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 8000	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 7000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 6000	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 5000	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 4500	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 4000	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 3500	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 3000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 2500	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 200	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 100	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 119

DATA PROCESSING PLANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY AIR SPAIN/MAADRID  
STATION NAME

68-77  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ 0
NO CEILING		61.7	61.7	62.1	62.1	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 20000		70.1	70.1	70.5	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 18000		70.1	70.1	70.5	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 16000		70.1	70.1	70.5	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 14000		70.1	70.1	70.5	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 12000		70.2	70.2	70.6	70.7	70.7	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 10000		71.4	71.4	71.9	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 9000		72.7	72.7	73.1	73.2	73.2	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 8000		77.6	77.6	77.9	78.0	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 7000		82.0	82.0	82.4	82.5	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 6000		83.4	83.4	83.4	83.9	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 5000		85.7	85.7	86.1	86.2	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 4500		87.0	87.0	87.4	87.5	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 4000		88.7	88.7	89.1	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 3500		91.4	91.4	92.0	92.4	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3000		93.0	93.0	94.5	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2500		94.8	94.8	95.4	95.9	95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2000		95.7	95.7	96.5	97.0	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1800		95.7	95.7	96.5	97.0	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1500		96.5	96.5	97.5	98.1	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200		97.0	97.2	98.0	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000		97.6	97.8	98.6	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		97.7	98.0	98.7	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

R33

TOTAL NUMBER OF OBSERVATIONS

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAF ETAC

FORM 7-64

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# CEILING VERSUS VISIBILITY

14011

TURKEY AF SPAIN/MADRID

02-77

APR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS UTC

CEILING (FEET)	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING		56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 20000		64.2	65.0	65.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.2
≥ 18000		65.0	65.7	66.3	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.1
≥ 16000		65.0	65.7	66.3	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.1
≥ 14000		65.3	66.1	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4
≥ 12000		65.7	66.3	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.9
≥ 10000		68.1	68.9	69.4	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2
≥ 9000		69.7	70.3	71.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3
≥ 8000		72.4	73.3	74.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4
≥ 7000		75.9	76.8	77.5	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.1
≥ 6000		77.2	78.1	78.3	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.6
≥ 5000		78.5	79.4	80.2	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	82.1
≥ 4500		80.2	81.1	81.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.8
≥ 4000		81.6	82.5	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	85.1
≥ 3500		85.2	86.1	87.1	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.2
≥ 3000		89.5	89.4	90.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	93.3
≥ 2500		90.3	90.3	91.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.5
≥ 2000		90.2	91.2	92.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	96.2
≥ 1800		90.2	91.2	92.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	96.2
≥ 1500		90.7	91.8	93.4	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	97.0
≥ 1200		91.1	92.3	94.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.2
≥ 1000		91.5	92.9	94.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.8
≥ 900		91.7	93.0	95.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	99.0
≥ 800		91.7	93.0	95.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	99.3
≥ 700		91.7	93.0	95.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	99.4
≥ 600		91.7	93.0	95.2	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	99.7
≥ 500		91.8	93.3	95.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.9
≥ 400		91.8	93.3	95.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.9
≥ 300		91.8	93.3	95.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.9
≥ 200		91.8	93.3	95.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.9
≥ 100		91.8	93.3	95.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.9
≥ 0		91.8	93.3	95.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.9

TOTAL NUMBER OF OBSERVATIONS

899

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/VAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TJPREJ7, AC SPAIN/ADKSID  
STATION NAME

08-77

YEAR

APK  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING		52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 20000		63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000		65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 16000		65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 14000		65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 12000		66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 10000		67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 9000		69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 8000		73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 7000		76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 6000		77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 5000		78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4000		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500		83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 3000		85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2500		90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 2000		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800		93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1600		94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1500		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1200		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1000		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 900		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 800		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 700		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 600		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 500		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 400		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 300		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 200		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 100		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
0		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4

TOTAL NUMBER OF OBSERVATIONS

900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TURKEY: AP SPAIN/ADRID 68-77 YEAR MONTH APR 1200-1400 HOURS AT 5

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING 'FEET'	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING															
≥ 20000		49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 18000		60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 16000		61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 14000		61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 12000		61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 10000		62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 9000		64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 8000		65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 7000		71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 6000		73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 5000		74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 4500		76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4000		79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 3500		82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000		85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1800		96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500		97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200		97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1000		98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 200		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 100		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 0		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS

899



DATA PROCESSING MANUAL  
USAF ETAC  
AIR WEATHER SERVICE/VAC

# CEILING VERSUS VISIBILITY

14011

T. RREJ, AD SPAIN/DAADAD

68-77

APR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ 0
NO CEILING ≥ 20000		48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 18000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 14000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 12000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 10000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 8000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 7000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 6000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 5000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 4500		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 4000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 3500		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 3000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 2500		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 2000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1800		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1500		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1200		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 900		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 800		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 700		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 600		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 500		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 400		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 300		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 200		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 100		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 0		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0

TOTAL NUMBER OF OBSERVATIONS 500

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# CEILING VERSUS VISIBILITY

14011  
Station

TUPREU, AP SPAIN/MAKILU  
Station Name

55-77

YARS

APR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS, UT

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	≥ .2	≥ 0
NO CEILING ≥ 20000		50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 18000		56.2	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 16000		66.9	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000		66.9	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 12000		67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 10000		68.2	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 9000		69.9	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 8000		71.6	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 7000		77.2	77.2	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 6000		80.4	80.4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 5000		91.8	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 4500		93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4000		85.6	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3500		87.7	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3000		90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2500		96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2000		97.6	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800		98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500		98.3	98.3	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		98.6	98.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000		98.6	98.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 100		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0		98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 10-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY, A. SPAIN/MADRID

03-77

YEAR

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 18000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 16000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 14000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 12000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 10000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 9000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 8000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 7000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 6000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 5000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 4500		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 4000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 3500		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 3000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 2500		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 2000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 1800		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 1500		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 1200		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 1000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 900		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 800		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 700		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 600		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 500		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 400		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 300		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 200		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 100		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 0		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS 900



DATE PROCESSING: MAR 61  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURKEY, AP SPAIN/MADRID

08-77

APR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-23

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING ≥ 20000	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 18000	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 16000	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 14000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 12000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 10000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 9000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 8000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 7000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 6000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 5000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 4500	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 4000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 3500	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 3000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 2500	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 2000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 1800	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 1500	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 1200	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 1000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 900	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 800	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 700	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 600	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 500	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 400	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 300	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 200	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 100	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2

TOTAL NUMBER OF OBSERVATIONS 7050

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY AIR SPAIN/NAKIU

68-77

1975

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS, U.S.T.

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 18000		76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 16000		76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 14000		76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 12000		76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 10000		77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 9000		78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 8000		79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 7000		84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 6000		85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 5000		87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 4500		89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4000		90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 3500		91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 3000		93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 2500		97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 2000		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1500		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TERRELL AP SPAIN/HADRID

8-77

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		66.1	66.2	66.3	67.2	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 18000		72.8	73.2	73.2	73.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 16000		72.8	73.2	73.2	73.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 14000		72.8	73.2	73.2	73.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 12000		73.1	73.5	73.5	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 10000		74.5	74.9	75.2	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 9000		75.1	75.6	75.9	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 8000		80.3	80.7	81.2	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 7000		82.0	82.4	82.9	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 6000		83.6	84.1	84.5	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 5000		84.5	84.9	85.4	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4500		85.4	85.9	86.4	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 4000		87.7	88.2	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 3500		90.5	91.0	91.6	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 3000		93.6	94.1	94.7	95.0	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2500		95.5	95.9	96.7	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 2000		96.7	97.2	98.1	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1800		94.7	97.2	98.1	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1600		97.2	97.7	98.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1400		97.4	98.0	98.9	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0		97.8	98.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

929

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 TURRETTA, AR SPAIN/MADRID

48-77

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS, U.S.T.

CEILING - FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING ≥ 20000	57.1	57.5	57.5	58.4	58.7	58.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 18000	65.2	65.5	66.2	66.5	66.8	66.8	66.8	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 14000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 12000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 10000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 9000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 8000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 7000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 6000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 5000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 4500	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 4000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 3500	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 3000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 2500	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 2000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 1800	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 1500	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 1200	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 1000	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 900	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 800	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 700	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 600	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 500	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 400	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 300	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 200	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 100	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 0	65.5	66.2	66.5	66.8	67.1	67.1	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4

TOTAL NUMBER OF OBSERVATIONS 920

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURREJO DE SPAIN/MADRID

68-77

MAY

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000	51.2	51.5	51.5	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 18000	62.6	62.6	62.6	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 16000	62.6	63.1	63.1	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 14000	62.6	63.1	63.1	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 12000	63.1	63.2	63.2	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 10000	63.6	64.2	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 9000	65.6	65.8	65.8	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 8000	67.6	67.7	67.7	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 7000	72.6	73.2	73.2	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 6000	74.6	76.4	76.4	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 5000	75.6	77.2	77.2	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 4500	79.1	79.5	79.5	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 4000	80.1	80.5	80.5	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500	82.6	83.3	83.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 3000	85.6	85.9	85.9	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500	91.5	91.5	91.5	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 2000	93.6	94.1	94.1	94.8	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1800	96.7	97.1	97.1	97.4	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1500	96.9	97.3	97.3	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1200	97.2	97.6	97.6	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	97.3	97.7	97.7	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	97.5	98.0	98.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	97.7	98.2	98.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	97.7	98.2	98.2	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	97.7	98.2	98.2	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	97.7	98.2	98.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.7	98.2	98.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.7	98.2	98.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.7	98.2	98.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.7	98.2	98.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.7	98.2	98.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/AC

# CEILING VERSUS VISIBILITY

14011

TURRETTIN AP SPAIN/NAKID

63-77

DATE

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 0.5	≥ 0.25	≥ 0.1	≥ 0.05	≥ 0.025	≥ 0
NO CEILING ≥ 20000	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 18000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 16000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 14000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 12000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 10000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 8000	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 7000	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 6000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 5000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 4500	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4000	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3500	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3000	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 2500	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS

MAY MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700 HOURS LT

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING		48.5	46.5	48.5	48.5	48.5	46.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 20000		64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 18000		65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000		65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 14000		65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000		66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 10000		68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 9000		70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 8000		75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 7000		77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 6000		78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 5000		81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 4500		82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4000		85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3500		90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 3000		97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2500		98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 2000		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1800		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1500		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY AR SPAIN/MADRID  
STATION NAME

68-77  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1.4	≥ 1.4	≥ 1.4	≥ 1.4	≥ 0
NO CEILING		52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7
≥ 20000		68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7
≥ 18000		69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4
≥ 16000		69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6
≥ 14000		69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8
≥ 12000		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1
≥ 10000		71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0
≥ 9000		73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3
≥ 8000		77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7
≥ 7000		80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4
≥ 6000		80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0
≥ 5000		84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4500		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6
≥ 4000		89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5
≥ 3500		92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9
≥ 3000		97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2500		98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2000		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1800		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1500		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 100		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
0		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURREJON AB SPAIN/MADRID

68-77

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 0
NO CEILING		68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 20000		75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 18000		76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 16000		76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 14000		76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 12000		76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 10000		78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 9000		78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 8000		83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 7000		87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 6000		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 5000		90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 4500		91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 4000		92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 3500		94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 3000		97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 2500		98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2000		98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

928

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURREJUN AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MAY  
MONTH

ALL  
GROUPS

CEILING HEIGHT	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING		57.7	57.9	58.0	58.1	58.1	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 20000		68.2	68.4	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 18000		68.7	68.9	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 16000		68.8	68.9	69.1	69.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 14000		68.9	69.1	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 12000		69.2	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 10000		71.1	71.3	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 9000		72.6	72.7	72.9	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 8000		77.4	77.6	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 7000		80.2	80.5	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 6000		81.0	81.2	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 5000		82.5	83.1	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 4500		84.6	84.8	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4000		86.7	86.9	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 3500		90.2	90.4	90.7	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 3000		94.7	95.0	95.4	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2500		96.2	96.6	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2000		97.5	97.8	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1800		97.6	97.9	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		97.9	98.2	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		98.2	98.5	99.1	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		98.4	98.7	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		98.5	98.8	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		98.5	98.8	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		98.5	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 7435

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 TURKEY AB SPAIN/MADRID 68-77 JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ 0
NO CEILING		76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 20000		81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 18000		81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 16000		81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 14000		81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 12000		81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 10000		83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 9000		84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 8000		91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 7000		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 6000		94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 5000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 4500		95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 4000		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 3500		97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3000		98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2500		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2000		99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION NAME TURREJON AR SPAIN/MADRID

68-77

JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500 HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING ≥ 20000		75.3	75.4	75.6	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1
≥ 18000		78.6	78.9	79.1	79.3	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5
≥ 16000		78.8	79.0	79.2	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.6
≥ 14000		78.8	79.0	79.2	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.6
≥ 12000		79.2	79.4	79.6	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1
≥ 10000		81.9	82.1	82.3	82.5	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.8	82.8	82.8	82.8
≥ 9000		83.1	83.3	83.5	83.8	83.8	83.8	83.8	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0
≥ 8000		88.0	88.2	88.4	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0
≥ 7000		90.1	90.3	90.5	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1
≥ 6000		90.5	90.8	91.0	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5
≥ 5000		91.2	91.4	91.7	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.2	92.2	92.2	92.2
≥ 4500		92.2	92.4	92.7	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2
≥ 4000		92.9	93.1	93.4	93.8	93.8	93.8	93.8	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0
≥ 3500		94.5	94.8	95.1	95.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7
≥ 3000		96.3	96.6	96.9	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.6	97.6	97.6	97.6
≥ 2500		96.9	97.1	97.4	97.7	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1
≥ 2000		97.1	97.3	97.7	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4
≥ 1800		97.1	97.3	97.7	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4
≥ 1500		97.7	97.9	98.2	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
≥ 1200		97.7	97.9	98.3	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
≥ 1000		98.1	98.2	98.8	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
≥ 900		98.2	98.4	98.9	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
≥ 800		98.2	98.4	98.9	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
≥ 700		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 600		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 500		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 400		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 300		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
0		98.4	98.7	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TORREJON AB SPAIN/MADRID

68-77

YEAR

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0900

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING		69.2	69.8	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 20000		73.2	73.9	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 18000		73.6	74.2	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 16000		73.6	74.2	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 14000		73.8	74.4	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 12000		74.6	75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 10000		77.6	78.2	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 9000		79.1	79.8	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 8000		84.6	85.2	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 7000		85.7	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 6000		86.4	87.1	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 5000		87.4	88.1	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 4500		88.4	89.1	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 4000		90.2	90.9	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 3500		91.9	92.6	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 3000		93.1	93.8	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 2500		93.7	94.3	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000		94.4	95.1	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800		94.6	95.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1500		95.1	95.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200		95.8	96.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000		96.4	97.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900		96.4	97.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800		96.6	97.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700		96.9	97.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600		96.9	97.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500		96.9	97.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400		96.9	97.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300		96.9	97.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		96.9	97.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		96.9	97.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
U		96.9	97.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

900

USAF ETAC

0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 64



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 TORREJON AP SPAIN/MADRID

68-77

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128
NO CEILING		70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 20000		76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 18000		76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 16000		76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 14000		76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 12000		77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 10000		78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 9000		80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 8000		84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 7000		86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 6000		86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 5000		88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 4500		88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4000		91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 3500		93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 3000		96.2	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2500		97.3	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 2000		97.8	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800		97.8	98.2	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500		98.3	98.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		98.4	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		98.4	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		98.4	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		98.4	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
U		98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TORREJON AB SPAIN/MADRID

68-77

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOUR

CEILING (FEET)	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING ≥ 20000		64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 18000		72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 16000		72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 14000		72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 12000		73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 10000		73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 9000		74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 8000		76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 7000		79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 6000		81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 5000		82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500		84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4000		85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 3500		89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 3000		95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 2500		98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2000		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800		99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1500		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 900

# CEILING VERSUS VISIBILITY

**TURREJON AB SPAIN/MADRID**

68-77

**UNIT**

**1500-1700**  
**HOURS PST**

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET.	VISIBILITY - STATUTE MILES.													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 0
NO CEILING		61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 20000		71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 18000		71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 16000		71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 14000		71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 12000		72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000		73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 9000		74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 8000		76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 7000		80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 6000		82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 5000		83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 4500		86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 4000		87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3500		91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 3000		96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2500		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2000		99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1600		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1400		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

USAF ETAC  
FORM  
JUL 64  
0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS

000



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TORREJON AB SPAIN/MADRID

68-77

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING 'FEET'	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING		62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 20000		72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 18000		73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 16000		73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 14000		73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 12000		74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 10000		76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 9000		78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 8000		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 7000		87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 6000		88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 5000		90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 4500		91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4000		93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3500		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 3000		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2500		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 2000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1800		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TORREJON AB SPAIN/MAORID

68-77

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 0
NO CEILING ≥ 20000	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 18000	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 16000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 14000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 12000	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 10000	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 9000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 8000	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 7000	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 6000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 5000	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 4500	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 4000	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 3500	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 3000	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 2500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1800	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1500	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TORREJON AB SPAIN/MADRID

68-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING 'FEET'	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0
NO CEILING		68.8	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 20000		75.5	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 18000		75.8	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 16000		75.8	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 14000		76.0	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 12000		76.8	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 10000		78.5	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 9000		80.2	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 8000		85.5	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 7000		87.5	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 6000		88.1	88.2	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 5000		89.5	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 4500		90.5	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 4000		92.6	92.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 3500		95.4	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3000		97.6	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2500		98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2000		98.3	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800		98.4	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500		98.7	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200		98.8	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		99.0	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		99.0	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		99.0	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0		99.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

7199

TOTAL NUMBER OF OBSERVATIONS

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TORREJON AB SPAIN/MADRID

68-77

STATES

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS H

CEILING - FEET -	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1.3	≥ 1.2	≥ 1.1	≥ 1.0	≥ .5	≥ 0
NO CEILING														
≥ 20000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 18000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 16000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 14000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 12000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 10000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 9000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 8000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 7000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 6000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 5000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 4500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 4000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 3500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 3000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1800	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1200	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 900	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 800	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 700	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 600	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 400	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 300	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 200	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 100	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 0	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TORREJON AB SPAIN/MADRID

68-77

MONTH

0300-0500 HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2
NO CEILING ≥ 20000	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4	90.1 92.4
≥ 18000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 16000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 14000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 12000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 10000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 9000	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 8000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 7000	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 6000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 5000	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 4500	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 4000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 3500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 3000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2500	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TORREJON AB SPAIN/MADRID

68-77

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS-UT-1

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ 0
NO CEILING		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 20000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 18000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 16000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 14000		91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 12000		92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 10000		93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 9000		93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 8000		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 7000		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 6000		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 5000		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4500		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 4000		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 3500		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 3000		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# CEILING VERSUS VISIBILITY

14011  
STATION

TORREJUN AB SPAIN/MADRID

68-77

Say

**THE**

0900-1100  
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

100 000

USAF ETAC

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TERREJON AB SPAIN/MADRID  
STATION NAME

68-77  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS U.S.T.

CEILING 'FEET'	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .16	≥ .4	≥ 0
NO CEILING ≥ 20000		84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0	84.6 91.0
≥ 18000		91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3
≥ 16000		91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3	91.3 91.3
≥ 14000		91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4
≥ 12000		92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1	92.1 92.1
≥ 10000		92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6	92.6 92.6
≥ 9000		93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0	93.0 93.0
≥ 8000		94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9	94.9 94.9
≥ 7000		95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4	95.4 95.4
≥ 6000		95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5
≥ 5000		96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1
≥ 4500		96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1	96.1 96.1
≥ 4000		97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0	97.0 97.0
≥ 3500		98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4
≥ 3000		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 2500		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 2000		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1800		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1500		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1200		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1000		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 900		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 800		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 700		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 600		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 500		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 400		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 300		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 200		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 0		100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

929

TOTAL NUMBER OF OBSERVATIONS

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAF ETAC  
11/84  
JUL 84



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TERREJON AB SPAIN/MADRID

68-77

YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING		81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 20000		88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 18000		88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 16000		88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 14000		88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 12000		89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 10000		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 9000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 8000		93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 7000		94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 6000		94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 5000		94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 4500		95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 4000		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 3500		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 3000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 1 JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURREJ AB SPAIN/MADRID

68-77

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING		83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 20000		89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 18000		89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 16000		89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 14000		89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 12000		89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 10000		90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 9000		92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 8000		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 7000		94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 6000		95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 5000		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 4500		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 4000		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 3500		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 3000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TORREJON AB SPAIN/MADRID

68-77

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ 0
NO CEILING ≥ 20000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 18000	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 16000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 14000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 12000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 10000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 8000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 7000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 6000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 5000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 4500	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 4000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3500	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 2500	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 2000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1800	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1500	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1200	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 900	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 800	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 700	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 600	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 500	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 400	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 300	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 200	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 100	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 0	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

10-14-5

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURREJON AB SPAIN/MADRID

68-77

YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 18000		90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 16000		90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 14000		90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 12000		91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 10000		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 9000		92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 8000		95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 7000		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 6000		96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 5000		96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 4500		96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 4000		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3500		98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 3000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 7438

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 10-64

USAF ETAC

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 TORREJON AB SPAIN/MADRID 68-77 AUG 0000-0200

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ 0
NO CEILING		87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 20000		91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 18000		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 16000		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 14000		92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 12000		92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 10000		93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 9000		93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 8000		96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 7000		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 6000		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 5000		98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 4500		98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 4000		98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 3500		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 3000		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2500		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2000		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1800		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1500		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY AR SPAIN/MADRID

68-77

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ 0
NO CEILING		89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 20000		92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 18000		92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 16000		92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 14000		93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 12000		93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 10000		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 9000		95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 8000		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 7000		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 6000		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 5000		98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 4500		98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 4000		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 3500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 3000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

USAF ETAC FORM 84  
0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TURREJUN AB SPAIN/MADRID 68-77 AUG 1968

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING ≥ 20000		85.8	85.9	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 18000		90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 16000		90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 14000		90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 12000		90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 10000		91.7	91.8	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 8000		92.2	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 7000		94.6	94.7	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 6000		96.0	96.1	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 5000		96.7	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 4500		97.2	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 4000		97.4	97.7	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 3500		98.0	98.1	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3000		98.4	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2500		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2000		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1800		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1500		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0		98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14017

TURREJON AR SPAIN/MADRID

08-77

AUG

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ 0
NO CEILING		84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 20000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 18000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 16000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 14000		92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 12000		92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 10000		93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 9000		94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 8000		95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 7000		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 6000		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 5000		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 4500		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 4000		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 3500		98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3000		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2500		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1500		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TORREJON AB SPAIN/MADRID YEAR 68-77 MONTH AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS) 1200-1400 HOURS LT

CEILING FEET	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 0
NO CEILING											
≥ 20000	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 18000	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 16000	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 14000	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 12000	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 10000	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 9000	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 8000	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 7000	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 6000	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 5000	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 4500	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 4000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 3500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURREJON AB SPAIN/NADKID

68-77

1275

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS N.Y.

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING ≥ 20000	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 18000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 16000	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 14000	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 12000	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 10000	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 9000	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 8000	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 7000	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 6000	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 5000	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 4500	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4000	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 3500	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 3000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2500	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS 1800-2000 HOURS, 11 AUG MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ 0
NO CEILING		79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 20000		87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 18000		88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 16000		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 14000		88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 12000		88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 10000		90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 9000		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 8000		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 7000		94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 6000		94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 5000		95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 4500		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 4000		97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 3500		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 3000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 2500		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 2000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1800		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1500		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION 1. BUREJON AB SPAIN/MADRID 68-77 YEARS AUG MONTH

2100-2300  
HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING		85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 20000		89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 18000		90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 16000		90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 14000		90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 12000		90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 10000		91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 9000		92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 8000		95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 7000		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 6000		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 5000		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4500		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 4000		98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 3500		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 3000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURKEY AB SPAIN/MADRID

8-77

YEARS

AUG

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ 0	≥ 0
NO CEILING		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 20000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 18000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 16000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 14000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 12000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 10000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 9000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 8000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 7000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 6000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 5000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4500		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 2500		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 2000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1800		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1500		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1200		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1000		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 900		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 800		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 700		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 600		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 500		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 400		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 300		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 200		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 100		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 0		84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3

TOTAL NUMBER OF OBSERVATIONS 7440

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

STATION NAME  
TURNERJOHN AB SPAIN/MADRID

68-77

SEP

TABLE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS, M, S

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.0	≥ .75	≥ .5	≥ .25	≥ .15	≥ 0
NO CEILING		79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 20000		84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 18000		84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 16000		84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 14000		84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 12000		86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 10000		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 9000		89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 8000		92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 7000		94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 6000		94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 5000		95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 4500		96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 4000		97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 3500		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3000		98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 2500		98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1500		99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 900



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

STATION NAME  
TURREJON AB SPAIN/MADRID

68-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS, U.S.T.

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1.3	≥ 1.2	≥ 1.1	≥ 1.0	≥ 0
NO CEILING		79.8	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2	79.2
≥ 20000		33.2	33.3	33.4	33.6	33.6	33.6	33.6	33.6	33.7	33.7	33.7	33.7	33.7
≥ 18000		33.4	33.6	33.7	33.8	33.8	33.8	33.8	33.8	33.9	33.9	33.9	33.9	33.9
≥ 16000		33.4	33.6	33.7	33.8	33.8	33.8	33.8	33.8	33.9	33.9	33.9	33.9	33.9
≥ 14000		33.4	33.6	33.7	33.8	33.8	33.8	33.8	33.8	33.9	33.9	33.9	33.9	33.9
≥ 12000		33.6	33.7	33.8	33.9	33.9	33.9	33.9	33.9	34.0	34.0	34.0	34.0	34.0
≥ 10000		35.7	35.8	35.9	36.0	36.0	36.0	36.0	36.0	36.1	36.1	36.1	36.1	36.1
≥ 9000		36.9	37.0	37.1	37.2	37.2	37.2	37.2	37.2	37.3	37.3	37.3	37.3	37.3
≥ 8000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 7000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 6000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 5000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 4500		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 4000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 3500		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 3000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 2500		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 2000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 1800		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 1500		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 1200		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 1000		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 900		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 800		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 700		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 600		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 500		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 400		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 300		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 200		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 100		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5
≥ 0		37.1	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/11AC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURREJON AP SPAIN/MADRID

08-77

STATION NAME

YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS UTC

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.3	≥.25	≥.2	≥.15	≥.1
NO CEILING ≥ 20000		72.8	73.0	73.3	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 18000		78.6	78.8	79.1	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 16000		78.7	78.9	79.2	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 14000		78.7	78.9	79.2	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 12000		78.7	78.9	79.2	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 10000		79.2	79.4	79.8	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 9000		80.3	80.6	80.9	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 8000		81.4	81.8	82.1	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 7000		85.2	85.4	85.8	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 6000		87.7	87.9	88.4	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 5000		87.9	88.1	88.7	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4500		89.1	89.3	89.9	90.4	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 4000		89.6	89.9	90.4	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 3500		90.4	90.8	91.3	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 3000		91.7	92.1	92.8	93.4	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2500		93.4	93.9	94.8	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000		94.2	94.8	95.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1800		94.6	95.1	96.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500		94.6	95.1	96.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1200		94.6	95.1	96.3	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000		95.4	96.0	97.3	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900		95.6	96.1	97.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		95.7	96.3	97.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700		95.7	96.3	97.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600		95.8	96.6	97.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500		95.9	96.6	97.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		95.9	96.7	98.0	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		95.9	96.7	98.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200		95.9	96.7	98.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100		95.9	96.7	98.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0		95.9	96.7	98.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURREJON AR SPAIN/MADRID  
STATION NAME

8-77  
YEAR

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (LST)

CEILING (FEET)	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING		71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 20000		78.8	78.8	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 18000		79.7	79.7	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 16000		79.7	79.7	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 14000		79.7	79.7	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 12000		80.1	80.2	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 10000		81.7	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 9000		82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 8000		85.4	85.6	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 7000		87.6	87.7	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 6000		87.6	87.9	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 5000		89.4	89.6	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4500		90.5	90.0	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 4000		90.5	91.0	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 3500		92.8	93.0	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 3000		94.6	94.9	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 2500		95.4	95.9	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 2000		95.6	96.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1800		95.7	96.2	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1500		95.7	96.6	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1200		96.6	97.0	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000		96.6	97.6	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900		96.6	97.6	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800		97.0	97.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0		97.0	97.7	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 600

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURREJON AB SPAIN/MADRID

68-77

SEP  
1968

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS UTC

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING ≥ 20000		71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 18000		81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 16000		81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 14000		81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 12000		82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 10000		82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 9000		83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 8000		83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 7000		86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 6000		88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 5000		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 4500		89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 4000		90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 3500		92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 3000		94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 2500		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2000		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1500		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

900

USAF ETAC

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM  
FEB 64

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 1500-1700 HOURS SEP MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ 0
NO CEILING ≥ 20000		69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 18000		81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 16000		82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 14000		82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 12000		82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 10000		83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 9000		84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 8000		85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 7000		89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 6000		91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 5000		91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 4500		93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 4000		94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 3500		95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3000		96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 2500		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 2000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1800		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1500		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 900



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION NAME

TURREJON A9 SPAIN/MADRID

68-77

SEP  
AUG 77

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING		75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 20000		85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 18000		86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 16000		86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 14000		86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 12000		86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 10000		88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 9000		88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 8000		91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 7000		93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 6000		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 5000		95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 4500		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 4000		97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 3500		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 3000		99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 2500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 1399 Jul 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEYTN AB SPAIN/MADRID  
STATION NAME

68-77  
YEAR

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001	≥ 0
NO CEILING		82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 20000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 18000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 16000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 14000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 12000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 10000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 8000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 7000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 6000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 5000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 4500		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 4000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 3500		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 3000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 2500		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 2000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1800		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1500		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1200		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1000		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 900		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 800		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 700		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 600		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 500		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 400		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 300		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 200		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 100		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 0		87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6

TOTAL NUMBER OF OBSERVATIONS 900



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/WWAC

# CEILING VERSUS VISIBILITY

14011

TURKEY AIR SPAIN/MADRID

8-77

SEP

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ 0
NO CEILING		75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 20000		82.6	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 18000		83.1	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 16000		83.1	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 14000		83.2	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 12000		83.3	83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 10000		83.4	83.5	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 9000		83.5	83.6	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 8000		83.6	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 7000		83.7	83.8	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 6000		83.8	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 5000		83.9	84.0	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 4500		84.0	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4000		84.1	84.2	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 3500		84.2	84.3	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000		84.3	84.4	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 2500		84.4	84.5	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 2000		84.5	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1800		84.6	84.7	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 1500		84.7	84.8	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1200		84.8	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1000		84.9	85.0	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 900		85.0	85.1	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 800		85.1	85.2	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 700		85.2	85.3	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 600		85.3	85.4	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 500		85.4	85.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 400		85.5	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 300		85.6	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 200		85.7	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 100		85.8	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 0		85.9	86.0	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2

TOTAL NUMBER OF OBSERVATIONS 7200

DATA PROCESSING CENTER  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TORREJON AP SPAIN/MADRID

08-77

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING		71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 20000		78.3	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 18000		78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 16000		78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 14000		78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 12000		78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 10000		80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 9000		82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 8000		86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 7000		91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 6000		92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 5000		93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4500		94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 4000		95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 3500		96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 3000		97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500		97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2000		98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800		98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200		98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000		98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 200		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 100		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
0		98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING TRAINING  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TUPREJEN AR SPAIN/MADRID YEARS 68-77 MONTH OCT

0300-0500  
HOURS U.S.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING - FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING																
≥ 20000		70.2	70.6	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 18000		75.2	75.9	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 16000		75.4	76.0	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 14000		75.4	76.0	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 12000		75.4	76.0	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10000		76.1	76.8	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 9000		77.3	78.0	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 8000		78.0	78.6	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 7000		84.2	84.8	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 6000		89.1	89.8	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 5000		89.8	90.4	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 4500		90.8	91.4	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 4000		91.3	91.9	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3500		91.5	92.2	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 3000		92.9	93.4	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2500		94.1	94.7	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 2000		95.1	95.7	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1800		95.1	96.0	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1500		96.5	97.1	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200		96.6	97.2	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1000		96.7	97.3	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900		97.0	97.6	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800		97.0	97.6	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700		97.2	97.8	98.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600		97.4	98.1	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500		97.4	98.1	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400		97.5	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300		97.5	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200		97.5	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100		97.5	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0		97.5	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURKEY, AP SPAIN/MADRID

68-77

YEARS

QCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING ≥ 20000		63.5	54.3	64.7	65.3	65.3	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 18000		70.8	71.6	72.1	72.2	72.2	72.8	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 16000		71.3	72.4	72.4	73.2	73.2	73.2	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 14000		71.7	72.4	72.9	73.6	73.6	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 12000		72.7	73.4	73.4	74.6	74.6	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 10000		73.4	74.4	74.4	75.6	75.6	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 9000		74.3	75.0	75.3	76.2	76.2	76.8	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 8000		78.7	79.3	80.1	80.8	80.8	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 7000		82.5	83.3	83.9	84.7	84.7	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 6000		83.2	84.1	84.6	85.6	85.6	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 5000		84.7	85.6	86.1	87.1	87.1	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 4500		85.4	86.3	86.9	87.6	87.6	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000		85.8	86.7	87.1	88.1	88.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 3500		86.6	87.1	87.6	88.6	88.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 3000		87.4	88.1	88.6	89.6	89.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 2500		88.2	89.1	89.6	90.6	90.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000		89.0	90.0	90.6	91.6	91.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1800		90.4	91.4	92.3	93.3	93.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500		91.4	92.4	93.3	94.3	94.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1200		92.3	93.3	94.3	95.3	95.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1000		93.3	94.3	95.3	96.3	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 300		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 200		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 100		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 0		94.1	95.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS 929

DATA PROCESSING FACILITY  
USAF ETAC  
AIR WEATHER SERVICE/MAAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TERREJON AB SPAIN/MAACID  
STATION NAME

8-77  
YEAR

001  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ 0
NO CEILING											
≥ 20000		60.9	61.4	61.7	62.0	62.0	62.2	62.2	62.2	62.2	62.2
≥ 18000		70.9	71.5	72.0	72.5	72.5	72.6	72.6	72.6	72.6	72.6
≥ 16000		71.3	71.9	72.7	73.1	73.1	73.2	73.2	73.2	73.2	73.2
≥ 14000		71.3	71.9	72.7	73.1	73.1	73.2	73.2	73.2	73.2	73.2
≥ 12000		71.8	72.5	73.3	73.8	73.8	73.9	73.9	73.9	73.9	73.9
≥ 10000		72.3	72.9	73.8	74.2	74.2	74.3	74.3	74.3	74.3	74.3
≥ 9000		72.9	73.5	74.4	74.8	74.8	74.9	74.9	74.9	74.9	74.9
≥ 8000		74.1	75.0	77.6	78.1	78.1	78.2	78.2	78.2	78.2	78.2
≥ 7000		79.9	80.5	81.6	82.0	82.0	82.2	82.2	82.2	82.2	82.2
≥ 6000		82.4	83.0	84.1	84.5	84.5	84.6	84.6	84.6	84.6	84.6
≥ 5000		82.4	83.2	84.4	84.9	84.9	85.1	85.1	85.1	85.1	85.1
≥ 4500		83.5	84.2	85.4	85.9	85.9	86.0	86.0	86.0	86.0	86.0
≥ 4000		84.0	84.6	85.8	86.6	86.6	86.7	86.7	86.7	86.7	86.7
≥ 3500		85.6	86.2	87.4	88.2	88.2	88.3	88.3	88.3	88.3	88.3
≥ 3000		87.4	88.4	89.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0
≥ 2500		90.7	91.4	93.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3
≥ 2000		91.8	93.0	94.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 1800		93.1	94.4	96.3	97.5	97.5	97.7	97.7	97.7	97.7	97.7
≥ 1500		93.2	94.5	96.5	97.6	97.6	97.8	97.8	97.8	97.8	97.8
≥ 1200		94.3	95.7	97.6	98.8	98.8	99.0	99.0	99.0	99.0	99.0
≥ 1000		94.7	96.1	98.1	99.5	99.5	99.7	99.7	99.7	99.7	99.7
≥ 900		94.8	96.2	98.2	99.6	99.6	99.8	99.8	99.8	99.8	99.8
≥ 800		94.9	96.3	98.3	99.7	99.7	99.9	99.9	99.9	99.9	99.9
≥ 700		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥ 600		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥ 500		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥ 400		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥ 300		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥ 200		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥ 100		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0
0		95.1	96.5	98.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC

13PM  
JUL 84

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# CEILING VERSUS VISIBILITY

14011 STATION TURKEY IN AR SPAIN/MADRID 68-77 1000

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOUR

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .4	≥ .3	≥ .2	≥ .1	≥ 0
NO CEILING		58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 2000		71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 1800		71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 1600		71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 1400		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 1200		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 1000		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 900		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 800		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 700		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 600		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 500		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 400		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 300		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 200		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 100		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 0		72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2

TOTAL NUMBER OF OBSERVATIONS 920

DATA PROCESSING SECTION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS OCT 1500-1700 HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000	58.0 71.2	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3	58.1 71.3
≥ 18000	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 16000	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 14000	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 12000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 10000	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 9000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 8000	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 7000	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 6000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 5000	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4500	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 4000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3500	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2500	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 2000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1800	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 600	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 300	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 200	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 100	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAO

# CEILING VERSUS VISIBILITY

14011

TURREJON AB SPAIN/MADRID

68-77

JCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING		63.7	63.7	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 20000		73.5	73.8	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 18000		74.1	74.2	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 16000		74.1	74.2	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 14000		74.7	74.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 12000		75.6	75.6	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 10000		77.7	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 9000		79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 8000		83.7	83.9	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 7000		87.6	87.8	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 6000		89.4	89.6	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 5000		90.4	90.6	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 4500		91.4	91.6	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 4000		93.3	93.5	93.6	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 3500		95.3	95.5	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 3000		97.4	97.6	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2500		97.7	98.0	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2000		98.1	98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800		98.1	98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500		98.4	98.6	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		98.7	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000		98.9	99.1	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		99.1	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 7-64

14-5 (OL A)

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

14011

TURKEY JN AB SPAIN/MADRID

Q-77

OCT

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS U.S.T.

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING		70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 20000		75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 18000		75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 16000		75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 14000		74.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 12000		75.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 10000		78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 9000		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000		84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 7000		91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 6000		92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 5000		93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 4500		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4000		95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3500		96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 3000		98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2500		98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 2000		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 100		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS

930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURREJON DE SPAIN/MADRID

08-77

UCT

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS 13

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING		64.7	64.9	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 20000		72.5	73.6	73.8	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 18000		73.7	74.0	74.2	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 16000		72.8	74.1	74.3	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 14000		74.2	74.5	74.8	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 12000		74.8	75.1	75.3	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 10000		77.7	76.3	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 9000		77.8	78.1	78.4	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 8000		82.4	82.7	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 7000		86.4	86.7	87.1	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 6000		87.4	87.8	88.1	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 5000		88.5	88.9	89.2	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 4500		89.7	89.7	90.1	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 4000		90.5	90.9	91.2	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 3500		92.4	92.8	93.2	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3000		94.7	95.1	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 2500		95.8	96.2	96.8	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2000		96.6	97.1	97.6	98.2	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800		96.7	97.2	97.8	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1500		97.3	97.7	98.3	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		97.4	97.9	98.5	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		97.5	98.0	98.7	99.3	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		97.5	98.0	98.7	99.3	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		97.6	98.1	98.7	99.3	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		97.6	98.1	98.8	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		97.6	98.1	98.8	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		97.7	98.1	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		97.7	98.1	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		97.7	98.1	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.7	98.1	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.7	98.1	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.7	98.1	98.8	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

7439

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC

FORM 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING PRA, CH  
USAF ETAC  
AIR WEATHER SERVICE/AC

# CEILING VERSUS VISIBILITY

140111 TLREJ AD SPAIN/MADRID

68-77

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING																
≥ 20000	62.7	62.4	62.4	63.5	63.7	63.8	64.0	64.1	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.5
≥ 18000	65.6	65.1	65.1	67.2	67.4	67.5	67.6	67.7	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.2
≥ 16000	65.9	66.3	66.3	67.4	67.6	67.7	67.9	68.0	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.4
≥ 14000	65.3	65.3	65.3	67.4	67.6	67.7	67.9	68.0	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.4
≥ 12000	64.7	65.4	65.4	67.5	67.7	67.9	68.0	68.1	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.5
≥ 10000	66.4	66.9	66.9	68.1	68.2	68.3	68.4	68.5	68.6	68.9	68.9	68.9	68.9	68.9	68.9	69.0
≥ 9000	67.6	68.1	68.1	69.2	69.3	69.5	69.6	69.7	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.2
≥ 8000	75.2	75.6	75.6	76.3	77.3	77.4	77.5	77.6	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.1
≥ 7000	60.4	60.9	60.9	62.3	62.5	63.0	63.1	63.2	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.6
≥ 6000	71.3	71.6	71.6	72.9	73.6	73.9	74.0	74.1	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.5
≥ 5000	72.5	73.0	73.0	74.1	75.1	75.1	75.2	75.3	75.4	75.8	75.8	75.8	75.8	75.8	75.8	75.9
≥ 4500	73.2	73.6	73.6	74.8	75.7	75.8	76.0	76.1	76.2	76.7	76.7	76.7	76.7	76.7	76.7	76.8
≥ 4000	74.2	74.6	74.6	75.8	76.7	76.8	77.0	77.1	77.2	77.7	77.7	77.7	77.7	77.7	77.7	77.8
≥ 3500	75.1	75.5	75.5	76.7	77.5	77.7	77.9	78.0	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.8
≥ 3000	76.3	76.8	76.8	77.9	78.3	78.9	79.1	79.2	79.3	79.9	79.9	79.9	79.9	79.9	79.9	80.0
≥ 2500	77.9	78.3	78.3	79.4	80.3	80.4	80.7	80.8	80.9	81.5	81.5	81.5	81.5	81.5	81.5	81.6
≥ 2000	79.0	79.2	79.2	80.3	81.2	81.3	81.5	81.6	81.7	82.3	82.3	82.3	82.3	82.3	82.3	82.4
≥ 1800	79.4	79.7	79.7	80.8	81.7	81.8	82.0	82.1	82.2	82.8	82.8	82.8	82.8	82.8	82.8	82.9
≥ 1500	80.2	80.5	80.5	81.6	82.5	82.6	82.8	82.9	83.0	83.6	83.6	83.6	83.6	83.6	83.6	83.7
≥ 1200	80.8	81.1	81.1	82.2	83.1	83.2	83.4	83.5	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.3
≥ 1000	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 900	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 800	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 700	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 600	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 500	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 400	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 300	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 200	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 100	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 0	81.0	81.3	81.3	82.4	83.3	83.4	83.6	83.7	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.5

TOTAL NUMBER OF OBSERVATIONS 899

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURREJON AR SPAIN/MADRID  
STATION NAME

68-77  
YEARS

NO. OF  
OBS.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0200-0500  
HOURS AT ST.

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING		60.4	61.1	62.1	63.2	63.2	63.2	63.3	63.3	63.5	63.5	63.5	63.5	63.5	63.6
≥ 20000		63.1	63.7	65.6	66.0	66.0	66.0	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.4
≥ 18000		63.1	63.7	65.6	66.0	66.0	66.0	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.4
≥ 16000		63.1	63.7	65.6	66.0	66.0	66.0	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.4
≥ 14000		63.2	63.8	65.7	66.1	66.1	66.1	66.2	66.2	66.4	66.4	66.4	66.4	66.4	66.5
≥ 12000		63.5	64.2	66.1	66.4	66.4	66.4	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.9
≥ 10000		64.4	65.3	67.2	67.5	67.5	67.5	67.6	67.6	67.9	67.9	67.9	67.9	67.9	68.0
≥ 9000		65.5	66.2	68.1	68.5	68.5	68.5	68.6	68.6	68.9	68.9	68.9	68.9	68.9	69.0
≥ 8000		70.4	71.1	73.0	73.6	73.6	73.6	73.7	73.7	74.0	74.0	74.0	74.0	74.0	74.1
≥ 7000		74.7	75.5	77.5	78.2	78.2	78.2	78.3	78.3	78.5	78.5	78.5	78.5	78.5	78.6
≥ 6000		75.9	76.8	78.6	79.3	79.3	79.3	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.8
≥ 5000		76.8	77.5	79.5	80.2	80.2	80.2	80.3	80.3	80.5	80.5	80.5	80.5	80.5	80.6
≥ 4500		78.2	79.0	81.0	81.6	81.6	81.6	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.1
≥ 4000		78.4	79.4	81.4	82.1	82.1	82.1	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.5
≥ 3500		80.1	80.9	82.9	83.5	83.5	83.5	83.6	83.6	83.9	83.9	83.9	83.9	83.9	84.0
≥ 3000		81.0	81.8	83.8	84.5	84.5	84.5	84.6	84.6	85.2	85.2	85.2	85.2	85.2	85.3
≥ 2500		83.1	83.9	86.0	86.8	86.8	86.8	86.9	86.9	87.4	87.4	87.4	87.4	87.4	87.5
≥ 2000		84.4	85.7	87.8	88.5	88.5	88.5	88.8	88.8	89.3	89.3	89.3	89.3	89.3	89.4
≥ 1800		85.1	86.0	88.1	89.0	89.0	89.0	89.3	89.3	89.9	89.9	89.9	89.9	89.9	90.0
≥ 1500		86.0	87.0	89.2	90.5	90.5	90.5	91.0	91.0	91.5	91.5	91.5	91.5	91.5	91.7
≥ 1200		87.2	88.3	90.7	92.1	92.1	92.1	92.5	92.7	93.1	93.1	93.1	93.1	93.1	93.2
≥ 1000		88.7	89.2	91.5	93.1	93.1	93.1	93.7	93.8	94.2	94.2	94.2	94.2	94.2	94.3
≥ 900		89.0	89.2	91.5	93.1	93.1	93.1	93.7	93.8	94.2	94.2	94.2	94.2	94.2	94.3
≥ 800		89.1	89.4	91.8	93.4	93.4	93.4	94.2	94.3	94.9	94.9	94.9	94.9	94.9	95.0
≥ 700		89.5	89.9	92.2	94.0	94.0	94.0	94.8	94.9	95.4	95.4	95.4	95.4	95.4	95.6
≥ 600		89.9	90.2	92.5	94.3	94.3	94.3	95.3	95.4	96.0	96.0	96.0	96.0	96.0	96.1
≥ 500		90.1	90.2	92.8	94.7	94.7	94.7	95.8	96.0	96.9	96.9	96.9	96.9	96.9	97.3
≥ 400		90.3	90.3	92.9	95.2	95.2	95.2	96.6	96.9	97.8	97.8	97.8	97.8	97.8	98.2
≥ 300		90.4	90.3	92.9	95.2	95.2	95.2	96.6	97.0	97.9	97.9	97.9	97.9	97.9	98.3
≥ 200		90.5	90.3	93.0	95.3	95.3	95.3	96.8	97.2	98.2	98.2	98.2	98.2	98.2	98.8
≥ 100		90.5	90.3	93.0	95.3	95.3	95.3	96.8	97.3	98.3	98.3	98.3	98.3	98.3	98.9
≥ 0		90.9	90.3	93.0	95.3	95.3	95.3	96.8	97.3	98.3	98.3	98.3	98.3	98.3	98.9
U		90.9	90.3	93.0	95.3	95.3	95.3	96.8	97.3	98.3	98.3	98.3	98.3	98.3	98.9

TOTAL NUMBER OF OBSERVATIONS

999

USAF ETAC

FORM 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING C.A. CP  
USAF ETAC  
AIR WEATHER SERVICE/VAC

# CEILING VERSUS VISIBILITY

14011 TURRENTA AC SPAIN/MADEIR  
STATION NAME

48-77

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 0
NO CEILING		52.7	53.2	54.4	55.7	55.8	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 20000		56.6	57.3	58.9	60.2	60.3	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 18000		57.2	58.0	59.6	60.9	61.0	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 16000		57.2	58.0	59.6	60.9	61.0	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 14000		57.2	58.0	59.6	60.9	61.0	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000		57.4	58.2	59.8	61.4	61.6	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 10000		58.1	58.9	60.4	62.1	62.2	62.4	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 9000		58.0	59.8	61.3	63.0	63.1	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 8000		64.4	65.2	66.9	68.7	68.8	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 7000		69.2	70.1	71.9	73.9	74.0	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 6000		70.2	71.0	72.4	74.9	75.0	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 5000		71.0	71.8	73.5	75.7	75.8	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 4500		72.3	73.1	74.9	77.1	77.2	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 4000		73.4	74.2	76.0	78.2	78.3	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3500		74.6	75.3	77.2	79.4	79.6	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 3000		75.9	76.7	78.5	80.6	80.9	81.1	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500		76.3	77.1	79.1	81.8	81.9	82.2	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2000		77.3	78.2	80.2	83.3	83.4	84.1	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1800		77.4	78.4	80.4	83.6	83.9	84.7	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1500		79.4	80.1	82.4	85.9	86.0	86.9	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1200		80.1	81.3	84.0	87.4	87.6	88.4	88.7	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1000		80.8	82.1	84.9	88.4	88.7	89.7	89.9	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 900		81.0	82.3	85.2	88.6	89.0	90.0	90.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 800		81.1	82.4	85.3	89.0	89.2	90.3	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 700		82.0	83.3	86.4	90.1	90.3	91.4	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 600		82.4	83.8	86.9	90.6	90.9	92.0	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 500		82.4	83.8	87.0	90.6	91.1	92.4	93.1	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 400		82.4	83.8	87.0	91.3	91.7	93.1	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 300		82.4	83.8	87.0	91.4	91.8	93.3	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 200		82.4	83.8	87.0	91.4	91.8	93.3	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 100		82.4	83.8	87.0	91.4	91.8	93.3	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 0		82.4	83.8	87.0	91.4	91.8	93.3	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 1 JUL 64

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# CEILING VERSUS VISIBILITY

14011 TURKEY AF SPAIN/1ADKID

68-77

NOV

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.75	≥.5	≥.25	≥.1	≥.05	≥.025	≥0
NO CEILING																
≥ 20000		49.5	49.7	51.5	53.3	53.3	53.8	53.8	53.8	54.1	54.1	54.1	54.1	54.1	54.2	54.3
≥ 18000		55.3	55.8	58.1	60.4	60.4	61.1	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.4	61.5
≥ 16000		56.1	56.0	58.8	61.2	61.2	61.8	61.8	61.8	62.1	62.1	62.1	62.1	62.1	62.2	62.3
≥ 14000		56.2	56.6	58.8	61.2	61.2	61.8	61.8	61.8	62.1	62.1	62.1	62.1	62.1	62.2	62.3
≥ 12000		56.8	57.1	59.3	61.6	61.6	62.3	62.3	62.3	62.5	62.5	62.5	62.5	62.5	62.6	62.7
≥ 10000		56.8	57.4	59.6	62.1	62.1	62.6	62.6	62.6	62.8	62.8	62.8	62.8	62.8	63.0	63.1
≥ 8000		57.6	58.2	60.3	62.8	62.8	63.5	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.8	64.0
≥ 6000		58.4	59.0	61.4	63.7	63.7	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.7	64.8
≥ 4000		62.1	62.8	65.3	67.6	67.6	68.3	68.3	68.3	68.5	68.5	68.5	68.5	68.5	68.7	68.9
≥ 3000		67.2	68.1	70.7	73.1	73.1	73.9	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.3	74.4
≥ 2000		67.6	68.5	71.2	73.5	73.5	74.3	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.7	74.9
≥ 1800		69.2	70.2	72.9	75.2	75.2	76.0	76.0	76.0	76.2	76.2	76.2	76.2	76.2	76.4	76.5
≥ 1600		69.7	70.7	73.4	75.8	75.8	76.5	76.5	76.5	76.8	76.8	76.8	76.8	76.8	77.0	77.1
≥ 1400		71.3	72.3	75.0	77.4	77.4	78.2	78.2	78.2	78.4	78.4	78.4	78.4	78.4	78.6	78.8
≥ 1200		72.2	73.2	75.9	78.3	78.3	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.6	79.8
≥ 1000		74.3	75.3	78.1	80.5	80.5	81.4	81.4	81.4	81.6	81.6	81.6	81.6	81.6	82.0	82.1
≥ 900		76.1	77.2	80.1	82.8	82.8	83.8	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.3	84.4
≥ 800		77.2	78.3	81.2	84.1	84.1	85.0	85.0	85.0	85.2	85.2	85.2	85.2	85.2	85.5	85.7
≥ 700		77.6	78.8	81.6	84.4	84.4	85.3	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.7	85.8
≥ 600		79.7	80.2	83.3	86.3	86.3	87.4	87.4	87.4	87.8	87.8	87.8	87.8	87.8	88.1	88.2
≥ 500		80.3	81.3	84.4	87.6	87.6	88.9	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.4	89.8
≥ 400		82.5	82.1	85.7	88.5	88.5	89.9	89.9	89.9	90.4	90.4	90.4	90.4	90.4	91.1	91.2
≥ 300		81.7	82.2	86.0	89.3	89.3	90.8	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.9	92.0
≥ 200		81.3	82.5	86.4	89.8	89.8	91.4	91.4	91.4	92.0	92.0	92.0	92.0	92.0	92.7	92.8
≥ 100		82.0	83.3	87.8	91.2	91.2	93.0	93.0	93.0	94.1	94.1	94.1	94.1	94.1	94.4	94.5
≥ 0		82.2	83.6	88.3	91.6	91.6	93.7	93.7	93.7	95.2	95.2	95.2	95.2	95.2	95.6	95.7
		82.2	83.6	88.4	92.1	92.1	94.1	94.1	94.1	96.2	96.2	96.2	96.2	96.2	96.6	96.7
		82.2	83.6	88.4	92.1	92.1	94.5	94.5	94.5	97.2	97.2	97.2	97.2	97.2	97.6	97.9
		82.2	83.6	88.4	92.1	92.1	95.9	95.9	95.9	97.7	97.7	97.7	97.7	97.7	98.1	98.4
		82.2	83.6	88.4	92.1	92.1	96.7	96.7	96.7	98.0	98.0	98.0	98.0	98.0	98.3	98.5
		82.2	83.6	88.4	92.1	92.1	97.8	97.8	97.8	99.0	99.0	99.0	99.0	99.0	99.3	99.4
		82.2	83.6	88.4	92.1	92.1	98.8	98.8	98.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
		82.2	83.6	88.4	92.1	92.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

392

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING C.A.C.M.  
USAF ETAC  
AIR WEATHER SERVICE/11AC

# CEILING VERSUS VISIBILITY

14011

TORREJON DE SPAIN/ADKID

08-77

NDV

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING		53.6	54.0	54.3	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 20000		59.7	59.1	59.7	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 18000		59.7	59.4	60.0	61.4	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 16000		59.7	59.4	60.0	61.4	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 14000		59.2	59.7	60.2	61.7	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 12000		60.2	60.7	61.2	62.7	62.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 10000		61.4	61.9	62.6	64.0	64.0	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 9000		62.2	62.8	63.4	64.9	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 8000		65.7	66.2	66.9	68.6	68.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000		70.2	70.8	71.4	73.2	73.2	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 6000		71.1	71.8	72.6	74.3	74.3	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000		71.8	72.4	73.3	75.2	75.2	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4500		73.2	73.9	74.8	76.7	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 4000		75.4	76.1	77.0	79.0	79.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		77.4	78.2	79.1	81.1	81.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3000		81.3	82.0	83.0	85.0	85.0	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 2500		83.9	84.4	85.4	87.4	87.4	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2000		86.0	86.8	87.9	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1800		86.4	87.2	88.3	90.7	90.7	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1500		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1200		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1000		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 900		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 800		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 700		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 600		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 500		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 400		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 300		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 200		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 100		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 0		86.0	86.8	88.0	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7

TOTAL NUMBER OF OBSERVATIONS

800

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1 JAN 64

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/VAC

# CEILING VERSUS VISIBILITY

14011 STATION TURKEY AR SPAIN/ADRID

06-77

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	- 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 0
NO CEILING	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 20000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 16000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 14000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 10000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 9000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 8000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 7000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 6000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 5000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 4500	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 4000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 3500	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 3000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 2500	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 2000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 1800	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 1500	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 1200	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 1000	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 900	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 800	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 700	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 600	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 500	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 400	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 300	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 200	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 100	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 0	54.0	53.0	53.0	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/4AC

# CEILING VERSUS VISIBILITY

14011

TLPREJDA AS SPAIN/MADRID

08-77

1955

NUV  
NOV

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS 151

CEILING (FEET)	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000		61.1	61.4	62.1	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 18000		64.1	64.4	66.2	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 16000		64.5	65.2	67.0	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 14000		64.5	65.2	67.0	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 12000		65.2	65.8	67.3	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 10000		65.7	66.3	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 9000		67.0	67.6	69.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 8000		68.6	68.8	70.7	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 7000		74.0	74.3	76.3	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 6000		79.7	80.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 5000		80.2	80.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500		81.7	82.1	84.1	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 4000		83.2	83.7	85.7	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 3500		84.8	85.2	87.2	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 3000		86.4	87.0	89.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2500		88.4	88.9	91.0	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 2000		90.8	90.2	92.3	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1800		91.2	91.8	93.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1500		91.4	92.0	94.2	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1200		92.1	92.7	95.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1000		92.1	92.7	95.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 900		92.4	93.1	95.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		92.4	93.1	95.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		92.8	93.3	95.9	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600		92.9	93.4	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500		92.9	93.4	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400		92.9	93.4	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 300		92.9	93.4	96.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 200		92.9	93.4	96.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 100		92.9	93.4	96.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0		92.9	93.4	96.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/TAC

# CEILING VERSUS VISIBILITY

14011

TURKEY AF SPAIN/MADRID

08-77

NOV

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ 0
NO CEILING		55.0	65.9	67.0	67.9	67.9	67.9	67.9	67.9	68.1	68.1	68.1	68.1	68.2	68.2
≥ 20000		97.6	68.4	69.7	70.6	70.6	70.6	70.6	70.6	70.8	70.8	70.8	70.8	70.9	70.9
≥ 18000		98.7	68.9	70.1	71.0	71.0	71.0	71.0	71.0	71.2	71.2	71.2	71.2	71.3	71.3
≥ 16000		98.0	68.9	70.1	71.0	71.0	71.0	71.0	71.0	71.2	71.2	71.2	71.2	71.3	71.3
≥ 14000		98.2	69.1	70.3	71.2	71.2	71.2	71.2	71.2	71.4	71.4	71.4	71.4	71.6	71.6
≥ 12000		98.6	69.4	70.7	71.5	71.5	71.5	71.5	71.5	71.8	71.8	71.8	71.8	71.9	71.9
≥ 10000		98.6	70.4	71.7	72.5	72.5	72.5	72.5	72.5	72.8	72.8	72.8	72.8	72.9	72.9
≥ 9000		71.7	71.9	73.1	74.0	74.0	74.0	74.0	74.0	74.2	74.2	74.2	74.2	74.3	74.3
≥ 8000		75.5	76.2	77.4	78.4	78.4	78.4	78.4	78.4	78.7	78.7	78.7	78.7	78.8	78.8
≥ 7000		79.7	80.6	81.4	82.3	82.3	82.3	82.3	82.3	83.6	83.6	83.6	83.6	83.7	83.7
≥ 6000		81.2	82.2	83.4	84.4	84.4	84.4	84.4	84.4	85.3	85.3	85.3	85.3	85.4	85.4
≥ 5000		81.8	82.7	83.9	85.1	85.1	85.1	85.1	85.1	85.8	85.8	85.8	85.8	85.9	85.9
≥ 4500		82.2	84.1	85.3	86.4	86.4	86.4	86.4	86.4	87.2	87.2	87.2	87.2	87.3	87.3
≥ 4000		84.0	84.9	86.1	87.2	87.2	87.2	87.2	87.2	88.0	88.0	88.0	88.0	88.1	88.1
≥ 3500		84.0	86.9	88.1	89.2	89.2	89.2	89.2	89.2	90.2	90.2	90.2	90.2	90.3	90.3
≥ 3000		87.7	87.9	89.1	90.2	90.2	90.2	90.2	90.2	91.2	91.2	91.2	91.2	91.3	91.3
≥ 2500		88.1	89.1	90.3	91.4	91.4	91.4	91.4	91.4	92.4	92.4	92.4	92.4	92.6	92.6
≥ 2000		89.7	90.7	91.9	93.0	93.0	93.0	93.0	93.0	94.0	94.0	94.0	94.0	94.1	94.1
≥ 1800		90.9	90.9	92.1	93.2	93.2	93.2	93.2	93.2	94.2	94.2	94.2	94.2	94.3	94.3
≥ 1500		91.7	92.7	94.4	96.0	96.0	96.0	96.0	96.0	97.0	97.0	97.0	97.0	97.2	97.2
≥ 1200		91.9	92.9	94.7	96.3	96.3	96.3	96.3	96.3	97.3	97.3	97.3	97.3	97.6	97.6
≥ 1000		92.0	93.1	95.1	96.6	96.6	96.6	96.6	96.6	97.6	97.6	97.6	97.6	97.9	97.9
≥ 900		92.0	93.1	95.2	96.9	96.9	96.9	96.9	96.9	97.8	97.8	97.8	97.8	98.0	98.0
≥ 800		92.0	93.4	95.8	97.7	97.7	97.7	97.7	97.7	98.2	98.2	98.2	98.2	98.0	98.0
≥ 700		92.1	93.6	95.9	97.8	97.8	97.8	97.8	97.8	98.3	98.3	98.3	98.3	98.1	98.1
≥ 600		92.1	93.6	95.9	97.8	97.8	97.8	97.8	97.8	98.4	98.4	98.4	98.4	98.9	98.9
≥ 500		92.2	93.7	96.0	97.9	97.9	97.9	97.9	97.9	98.6	98.6	98.6	98.6	99.0	99.0
≥ 400		92.2	93.7	96.1	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	99.2	99.2
≥ 300		92.2	93.7	96.1	98.0	98.0	98.0	98.0	98.0	99.1	99.1	99.1	99.1	99.3	99.3
≥ 200		92.2	93.7	96.1	98.0	98.0	98.0	98.0	98.0	99.2	99.2	99.2	99.2	99.4	99.4
≥ 100		92.2	93.7	96.1	98.0	98.0	98.0	98.0	98.0	99.2	99.2	99.2	99.2	99.6	99.6
≥ 0		92.2	93.7	96.1	98.0	98.0	98.0	98.0	98.0	99.2	99.2	99.2	99.2	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/TAC

# CEILING VERSUS VISIBILITY

14011  
STATION

TURKEY AIR SPAIN/MARKID  
STATION NAME

58-77  
YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ 0
NO CEILING		57.1	57.7	58.4	59.7	59.7	59.8	59.9	60.0	60.0	60.0	60.0	60.0	60.1	60.2
≥ 20000		61.1	61.7	62.2	64.2	64.2	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.7
≥ 18000		61.4	62.2	63.7	64.7	64.7	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.2
≥ 16000		61.6	62.2	63.7	64.7	64.7	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.2
≥ 14000		61.8	62.4	63.7	64.9	64.9	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.3	65.4
≥ 12000		62.4	63.0	64.5	65.5	65.5	65.7	65.7	65.9	65.9	65.9	65.9	65.9	66.0	66.1
≥ 10000		63.6	64.2	65.7	66.7	66.7	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.3
≥ 9000		64.2	65.4	66.9	68.0	68.0	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.5	68.6
≥ 8000		69.5	70.1	71.7	72.9	72.9	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.4	73.5
≥ 7000		74.4	75.1	76.8	78.1	78.1	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.7	78.8
≥ 6000		75.4	76.1	77.8	79.2	79.2	79.5	79.5	79.7	79.7	79.7	79.7	79.7	79.8	79.9
≥ 5000		76.5	77.2	78.9	80.3	80.3	80.7	80.7	80.9	80.9	80.9	80.9	80.9	81.0	81.1
≥ 4500		77.7	78.5	80.2	81.6	81.6	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.3	82.4
≥ 4000		79.0	79.8	81.5	82.9	82.9	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.5	83.6
≥ 3500		80.7	81.4	83.2	84.6	84.6	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.3
≥ 3000		82.6	83.3	85.1	86.5	86.5	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.3
≥ 2500		84.1	84.9	86.7	88.2	88.2	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.9	89.0
≥ 2000		85.7	86.5	88.3	90.1	90.1	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.8	90.9
≥ 1800		86.0	86.7	88.6	90.4	90.4	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
≥ 1500		87.0	87.9	89.1	92.2	92.2	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.2	93.3
≥ 1200		87.7	88.5	90.3	93.1	93.1	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.2
≥ 1000		88.1	89.1	91.6	93.9	93.9	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.1	95.2
≥ 900		88.2	89.2	91.7	94.1	94.1	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.3	95.4
≥ 800		88.4	89.4	92.1	94.6	94.6	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.9	96.0
≥ 700		88.7	89.6	92.5	95.1	95.1	96.1	96.4	96.5	96.5	96.5	96.5	96.5	96.6	96.7
≥ 600		88.8	89.0	92.7	95.3	95.3	96.4	96.8	96.9	96.9	96.9	96.9	96.9	97.0	97.1
≥ 500		88.9	89.0	92.8	95.6	95.6	96.7	97.2	97.4	97.4	97.4	97.4	97.4	97.5	97.6
≥ 400		89.0	89.0	92.9	95.7	95.7	96.9	97.6	97.7	97.7	97.7	97.7	97.7	97.8	97.9
≥ 300		89.0	89.0	93.0	95.8	95.8	97.0	97.6	97.9	98.0	98.0	98.0	98.0	98.1	98.2
≥ 200		89.0	89.0	92.9	95.8	95.8	97.0	97.7	97.9	98.0	98.0	98.0	98.0	98.1	98.2
≥ 100		89.0	89.0	92.9	95.8	95.8	97.0	97.7	97.9	98.0	98.0	98.0	98.0	98.1	98.2
≥ 0		89.0	89.0	92.9	95.8	95.8	97.0	97.7	97.9	98.0	98.0	98.0	98.0	98.1	98.2

TOTAL NUMBER OF OBSERVATIONS

7197



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURREJON AB SPAIN/MADRID

68-77

DEC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200

CEILING (FEET)	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING													
≥ 20000	40.2	49.9	50.4	50.4	50.4	50.4	51.5	51.6	51.6	51.6	51.6	51.6	51.6
≥ 18000	53.1	53.2	54.1	54.1	54.1	54.1	55.4	55.5	55.5	55.5	55.5	55.5	55.5
≥ 16000	53.2	53.6	54.1	54.1	54.1	54.1	55.5	55.7	55.7	55.7	55.7	55.7	55.7
≥ 14000	53.2	53.6	54.1	54.1	54.1	54.1	55.5	55.7	55.7	55.7	55.7	55.7	55.7
≥ 12000	53.2	53.6	54.1	54.1	54.1	54.1	55.5	55.7	55.7	55.7	55.7	55.7	55.7
≥ 10000	54.4	54.4	54.4	54.4	54.4	54.4	56.2	56.3	56.3	56.3	56.3	56.3	56.3
≥ 9000	55.1	55.4	56.3	56.3	56.3	56.3	57.1	57.3	57.3	57.3	57.3	57.3	57.3
≥ 8000	59.2	59.9	61.2	61.2	61.2	61.2	62.0	62.2	62.2	62.2	62.2	62.2	62.2
≥ 7000	62.8	64.2	65.9	65.9	65.9	65.9	66.6	66.8	66.8	66.8	66.8	66.8	66.8
≥ 6000	65.2	65.7	67.3	67.3	67.3	67.3	68.0	68.2	68.2	68.2	68.2	68.2	68.2
≥ 5000	65.5	67.1	68.7	68.7	68.7	68.7	69.4	69.6	69.6	69.6	69.6	69.6	69.6
≥ 4500	68.5	69.0	70.4	70.4	70.4	70.4	71.0	71.9	71.9	71.9	71.9	71.9	71.9
≥ 4000	69.1	69.0	72.1	72.1	72.1	72.1	72.2	73.1	73.1	73.1	73.1	73.1	73.1
≥ 3500	74.0	70.4	72.9	72.9	72.9	72.9	73.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 3000	74.0	75.5	77.3	77.3	77.3	77.3	78.5	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500	75.7	77.3	79.4	79.4	79.4	79.4	80.3	81.1	81.3	81.3	81.3	81.3	81.3
≥ 2000	79.3	80.0	83.0	83.0	83.0	83.0	84.7	84.9	84.9	84.9	84.9	84.9	84.9
≥ 1800	79.4	80.1	83.1	83.1	83.1	83.1	84.8	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1500	82.2	82.9	86.0	86.0	86.0	86.0	87.7	88.1	88.1	88.1	88.1	88.1	88.1
≥ 1200	83.6	84.3	87.6	87.6	87.6	87.6	89.6	89.9	89.9	89.9	89.9	89.9	89.9
≥ 1000	84.3	84.9	88.4	88.4	88.4	88.4	90.6	91.0	91.0	91.0	91.0	91.0	91.0
≥ 900	84.4	85.3	89.0	89.0	89.0	89.0	91.6	91.9	91.9	91.9	91.9	91.9	91.9
≥ 800	84.7	85.6	89.2	89.2	89.2	89.2	92.0	92.4	92.4	92.4	92.4	92.4	92.4
≥ 700	86.4	86.4	90.1	90.1	90.1	90.1	93.1	93.4	93.4	93.4	93.4	93.4	93.4
≥ 600	85.0	87.1	90.9	90.9	90.9	90.9	94.2	94.6	94.6	94.6	94.6	94.6	94.6
≥ 500	85.0	87.3	91.1	91.1	91.1	91.1	94.5	94.9	94.9	94.9	94.9	94.9	94.9
≥ 400	86.0	87.4	91.2	91.2	91.2	91.2	94.6	95.2	95.5	95.5	95.5	95.5	95.5
≥ 300	86.0	87.4	91.2	91.2	91.2	91.2	94.6	95.2	95.5	95.5	95.5	95.5	95.5
≥ 200	86.0	87.4	91.2	91.2	91.2	91.2	94.6	95.2	95.5	95.5	95.5	95.5	95.5
≥ 100	86.0	87.4	91.2	91.2	91.2	91.2	94.6	95.2	95.5	95.5	95.5	95.5	95.5
≥ 0	86.0	87.4	91.2	91.2	91.2	91.2	94.6	95.2	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

929

USAF ETAC

FORM 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAAC

# CEILING VERSUS VISIBILITY

14011

TURKEY AIR SPAIN/NAAC/10

52-77

YEARS

DEC  
MONTHS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING		47.8	48.3	48.3	49.5	49.5	50.0	50.1	50.1	50.3	50.4	50.4	50.4	50.5	50.5	50.6
≥ 20000		51.7	52.2	52.2	53.3	53.3	53.9	54.0	54.0	54.2	54.3	54.4	54.4	54.4	54.4	54.5
≥ 18000		52.3	52.7	53.3	53.9	53.9	54.4	54.5	54.5	54.7	54.8	54.9	54.9	54.9	54.9	55.1
≥ 16000		52.3	52.7	53.3	53.9	53.9	54.4	54.5	54.5	54.7	54.8	54.9	54.9	54.9	54.9	55.1
≥ 14000		52.4	52.3	53.4	54.0	54.0	54.5	54.6	54.6	54.8	54.9	54.9	54.9	55.1	55.1	55.2
≥ 12000		53.1	53.5	54.2	54.7	54.7	55.3	55.4	55.4	55.6	55.7	55.7	55.7	55.8	55.8	55.9
≥ 10000		54.5	54.5	55.6	56.1	56.1	56.7	56.8	56.8	57.0	57.1	57.1	57.2	57.2	57.2	57.3
≥ 9000		55.4	55.8	56.5	57.0	57.0	57.5	57.6	57.6	57.8	58.0	58.0	58.1	58.1	58.1	58.2
≥ 8000		59.4	60.0	60.6	61.2	61.2	61.7	61.8	61.8	62.0	62.2	62.2	62.3	62.3	62.3	62.4
≥ 7000		64.0	64.4	65.2	65.7	65.7	66.2	66.3	66.3	66.6	66.7	66.7	66.8	66.8	66.8	66.9
≥ 6000		65.1	65.5	66.3	66.9	66.9	67.4	67.5	67.5	67.7	67.8	67.8	68.0	68.0	68.0	68.1
≥ 5000		65.6	67.0	67.4	68.4	68.4	68.9	69.0	69.0	69.2	69.4	69.4	69.5	69.5	69.5	69.6
≥ 4500		65.2	68.8	69.7	70.4	70.4	71.0	71.2	71.2	71.4	71.5	71.5	71.6	71.6	71.6	71.7
≥ 4000		65.7	69.4	70.3	71.1	71.1	71.6	71.8	71.8	72.0	72.2	72.2	72.3	72.3	72.3	72.4
≥ 3500		71.0	71.6	72.6	73.3	73.3	73.9	74.1	74.1	74.3	74.4	74.4	74.5	74.5	74.5	74.6
≥ 3000		74.5	75.2	76.1	76.9	76.9	77.4	77.6	77.6	77.8	78.0	78.0	78.1	78.1	78.1	78.2
≥ 2500		77.4	78.1	79.7	79.6	79.6	80.3	80.5	80.5	80.8	80.9	80.9	81.0	81.0	81.0	81.1
≥ 2000		80.1	80.9	81.9	82.8	82.8	83.4	83.7	83.7	83.9	84.0	84.0	84.1	84.1	84.1	84.2
≥ 1800		80.2	81.1	82.2	83.0	83.0	83.7	83.9	83.9	84.1	84.2	84.2	84.3	84.3	84.3	84.4
≥ 1500		82.3	83.1	84.4	85.4	85.4	86.0	86.3	86.3	86.6	86.7	86.7	86.8	86.8	86.8	86.9
≥ 1200		84.2	85.2	86.6	87.6	87.6	88.4	88.7	88.7	88.9	89.0	89.0	89.1	89.1	89.1	89.2
≥ 1000		84.9	85.9	87.6	88.8	88.8	89.6	89.9	89.9	90.1	90.2	90.3	90.4	90.4	90.4	90.5
≥ 900		85.4	86.3	88.1	89.2	89.2	90.0	90.3	90.3	90.5	90.6	90.8	90.9	90.9	90.9	91.0
≥ 800		85.6	86.7	88.5	89.6	89.6	90.5	90.9	90.9	91.1	91.2	91.3	91.4	91.4	91.4	91.5
≥ 700		85.8	86.9	88.9	90.2	90.2	91.0	91.3	91.3	91.5	91.6	91.7	91.8	91.8	91.8	91.9
≥ 600		85.8	86.9	89.1	90.4	90.4	91.3	91.6	91.6	91.8	91.9	92.0	92.2	92.2	92.2	92.3
≥ 500		86.3	87.4	89.9	91.4	91.4	92.4	93.0	93.0	93.2	93.3	93.4	93.5	93.5	93.5	93.7
≥ 400		86.3	87.4	89.9	91.4	91.4	92.4	93.0	93.0	93.8	93.9	94.0	94.1	94.1	94.1	94.2
≥ 300		86.3	87.5	90.1	91.6	91.6	93.0	93.8	94.1	94.4	94.6	94.7	94.8	94.8	94.8	95.1
≥ 200		86.5	87.6	90.2	91.7	91.7	93.1	94.1	94.4	94.8	95.2	95.3	95.4	95.6	95.8	96.0
≥ 100		86.5	87.6	90.2	91.7	91.7	93.1	94.1	94.4	94.8	95.3	95.4	95.5	95.9	96.2	97.4
≥ 0		86.6	87.7	90.3	91.8	91.8	93.2	94.2	94.5	94.9	95.4	95.5	95.7	96.2	96.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAAC

# CEILING VERSUS VISIBILITY

14011 TURKEYIN AC SPAIN/MADRID

03-77

STATION NAME

7235

DEC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING															
≥ 20000	45.1	45.1	45.1	45.1	46.6	46.7	47.6	48.1	48.1	48.6	48.6	48.7	48.8	48.8	49.1
≥ 18000	49.9	49.9	50.4	50.4	51.2	51.3	52.3	52.7	52.7	53.2	53.2	53.3	53.4	53.4	53.8
≥ 16000	49.9	49.9	50.4	50.4	51.3	51.4	52.4	52.8	52.8	53.3	53.3	53.4	53.5	53.5	53.9
≥ 14000	49.9	49.9	50.4	50.4	51.3	51.4	52.4	52.8	52.8	53.3	53.3	53.4	53.5	53.5	53.9
≥ 12000	51.4	51.4	51.4	51.4	52.3	52.4	53.3	53.8	53.8	54.3	54.3	54.4	54.5	54.5	54.8
≥ 10000	51.4	51.4	51.4	51.4	52.3	52.4	53.3	53.8	53.8	54.3	54.3	54.4	54.5	54.5	54.8
≥ 9000	52.1	52.1	52.1	52.1	53.0	53.1	54.1	54.5	54.5	55.1	55.1	55.2	55.3	55.3	55.6
≥ 8000	52.1	52.1	52.1	52.1	53.0	53.1	54.1	54.5	54.5	55.1	55.1	55.2	55.3	55.3	55.6
≥ 7000	56.3	56.3	56.9	57.4	58.3	58.4	59.4	59.8	59.8	60.3	60.3	60.4	60.5	60.5	60.9
≥ 6000	60.3	60.3	61.3	61.9	62.8	62.9	63.9	64.3	64.3	64.8	64.8	64.9	65.1	65.1	65.4
≥ 5000	62.0	62.0	62.6	63.2	64.1	64.2	65.2	65.6	65.6	66.1	66.1	66.2	66.3	66.3	66.7
≥ 4500	64.1	64.1	64.7	65.3	66.2	66.3	67.3	67.7	67.7	68.2	68.2	68.3	68.4	68.4	68.8
≥ 4000	64.1	64.1	64.7	65.3	66.2	66.3	67.3	67.7	67.7	68.2	68.2	68.3	68.4	68.4	68.8
≥ 3500	67.1	67.1	67.7	68.3	69.2	69.3	70.3	70.7	70.7	71.2	71.2	71.3	71.4	71.4	71.8
≥ 3000	70.3	70.3	71.0	71.7	72.6	72.7	73.7	74.1	74.1	74.6	74.6	74.7	74.8	74.8	75.2
≥ 2500	73.2	73.2	74.0	74.7	75.6	75.7	76.7	77.1	77.1	77.6	77.6	77.7	77.8	77.8	78.2
≥ 2000	74.2	74.2	75.1	75.8	76.7	76.8	77.8	78.2	78.2	78.7	78.7	78.8	78.9	78.9	79.3
≥ 1800	77.1	77.1	78.0	78.7	79.6	79.7	80.6	81.0	81.0	81.5	81.5	81.6	81.7	81.7	82.1
≥ 1500	78.1	78.1	79.0	79.7	80.6	80.7	81.6	82.0	82.0	82.5	82.5	82.6	82.7	82.7	83.1
≥ 1200	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 1000	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 900	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 800	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 700	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 600	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 500	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 400	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 300	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 200	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
≥ 100	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1
0	79.1	79.1	80.0	80.7	81.6	81.7	82.6	83.0	83.0	83.5	83.5	83.6	83.7	83.7	84.1

USAF ETAC FORM 1-11-64 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING SECTION  
USAF ETAC  
AIR WEATHER SERVICE/ETAC

# CEILING VERSUS VISIBILITY

14011

STATION NAME  
TERREJON AB SPAIN/MADRID

18-77

DEC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS N 51

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ 0
NO CEILING		42.4	43.0	43.8	45.2	45.2	45.7	45.8	45.9	45.9	45.9	45.9	45.9	45.9	46.0	46.2
≥ 20000		47.4	48.5	49.5	51.2	51.2	51.8	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.3	52.5
≥ 18000		47.4	48.5	49.5	51.2	51.2	51.8	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.3	52.5
≥ 16000		47.4	48.5	49.5	51.2	51.2	51.8	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.3	52.5
≥ 14000		47.5	48.6	49.6	51.3	51.3	51.9	52.0	52.3	52.3	52.3	52.3	52.3	52.3	52.4	52.6
≥ 12000		47.5	48.6	49.6	51.3	51.3	51.9	52.0	52.3	52.3	52.3	52.3	52.3	52.3	52.4	52.6
≥ 10000		48.3	49.4	50.3	52.0	52.0	52.7	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.1	53.3
≥ 9000		49.5	50.5	51.7	53.5	53.5	54.2	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.6	54.8
≥ 8000		51.7	52.9	54.3	56.1	56.1	56.8	57.0	57.2	57.2	57.2	57.2	57.2	57.2	57.3	57.5
≥ 7000		55.1	56.3	57.7	59.9	59.9	60.6	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.2	61.4
≥ 6000		55.6	57.0	58.4	60.6	60.6	61.4	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.9	62.2
≥ 5000		57.1	58.5	59.9	62.2	62.2	62.9	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.7
≥ 4500		59.1	59.5	61.0	63.4	63.4	64.2	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.9
≥ 4000		59.9	60.3	61.8	64.6	64.6	65.7	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.6
≥ 3500		61.1	62.5	64.2	66.9	66.9	68.2	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.9	69.1
≥ 3000		64.9	66.2	68.1	70.8	70.8	72.0	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.8	73.0
≥ 2500		68.0	69.5	71.3	74.2	74.2	75.6	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.6
≥ 2000		70.9	72.7	74.8	78.2	78.2	79.6	79.9	80.2	80.2	80.2	80.2	80.2	80.2	80.4	80.6
≥ 1800		71.7	73.5	75.7	79.2	79.2	80.6	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.5	81.7
≥ 1500		74.4	76.2	78.7	82.3	82.3	83.9	84.4	84.7	84.8	84.8	84.8	84.8	84.8	85.1	85.3
≥ 1200		75.4	77.2	79.8	83.4	83.4	85.5	86.1	86.6	86.7	86.8	86.8	86.8	86.8	86.9	87.1
≥ 1000		76.2	78.3	81.1	85.1	85.1	87.3	88.1	88.6	88.7	88.8	88.8	88.8	88.8	88.9	89.1
≥ 900		76.2	78.3	81.1	85.4	85.4	87.6	88.4	88.9	89.0	89.1	89.1	89.1	89.1	89.2	89.6
≥ 800		76.3	78.4	81.4	85.7	85.7	88.1	88.9	89.5	89.6	89.7	89.7	89.7	89.7	89.9	90.1
≥ 700		76.5	78.5	81.7	86.3	86.3	88.9	89.8	90.3	90.4	90.4	90.4	90.4	90.4	90.8	91.0
≥ 600		76.5	78.6	82.0	86.7	86.7	89.4	90.4	91.0	91.1	91.1	91.1	91.1	91.1	91.5	91.7
≥ 500		76.6	78.6	82.2	86.9	86.9	90.2	91.4	92.2	92.4	92.4	92.4	92.4	92.4	92.8	93.0
≥ 400		76.6	78.6	82.2	86.9	86.9	90.3	91.7	92.8	93.1	93.1	93.1	93.1	93.1	93.7	94.0
≥ 300		76.6	78.6	82.2	87.0	87.0	90.5	92.2	93.5	93.8	94.2	94.4	94.4	94.4	95.1	95.8
≥ 200		76.6	78.6	82.2	87.0	87.0	90.5	92.5	92.8	94.2	94.7	94.9	94.9	94.9	95.5	96.9
≥ 100		76.6	78.6	82.2	87.0	87.0	90.5	92.5	92.8	94.2	94.7	94.9	94.9	94.9	95.5	96.7
≥ 0		76.7	78.7	82.3	87.1	87.1	90.6	92.6	92.9	94.3	94.8	95.1	95.1	95.1	96.3	96.7

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE / AC

# CEILING VERSUS VISIBILITY

14011 TURKEY AIR SPAIN/ADRID

6-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (LST)

CEILING - FEET -	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING		45.8	45.9	46.6	47.3	47.3	47.3	47.5	47.6	47.8	47.8	47.8	48.0	48.0	48.0
≥ 20000		54.5	51.2	52.1	53.0	53.0	53.0	53.2	53.3	53.7	53.7	53.7	53.8	53.8	53.8
≥ 18000		57.6	51.3	52.4	53.1	53.1	53.1	53.3	53.4	53.8	53.8	53.8	53.9	53.9	53.9
≥ 16000		57.6	51.3	52.2	53.1	53.1	53.1	53.3	53.4	53.8	53.8	53.8	53.9	53.9	53.9
≥ 14000		57.6	51.7	52.6	53.5	53.5	53.5	53.8	53.9	54.2	54.2	54.2	54.3	54.3	54.3
≥ 12000		51.0	51.8	52.7	53.7	53.7	53.7	53.9	54.0	54.3	54.3	54.3	54.4	54.4	54.4
≥ 10000		51.3	52.2	53.4	54.4	54.4	54.4	54.6	54.7	55.1	55.1	55.1	55.2	55.2	55.2
≥ 9000		52.5	54.4	55.8	56.8	56.8	56.8	57.1	57.2	57.5	57.5	57.5	57.6	57.6	57.6
≥ 8000		57.2	58.1	59.5	60.4	60.4	60.4	60.8	60.9	61.2	61.2	61.2	61.3	61.3	61.3
≥ 7000		60.6	61.5	62.9	63.9	63.9	63.9	64.2	64.3	64.6	64.6	64.6	64.7	64.7	64.7
≥ 6000		61.0	62.7	64.1	65.1	65.1	65.1	65.4	65.5	65.8	65.8	65.8	65.9	65.9	65.9
≥ 5000		62.8	63.9	65.3	66.5	66.5	66.5	66.8	66.9	67.2	67.2	67.2	67.3	67.3	67.3
≥ 4500		63.5	64.6	66.1	67.2	67.2	67.2	67.5	67.6	68.0	68.0	68.0	68.1	68.1	68.1
≥ 4000		64.7	65.8	67.3	68.7	68.7	68.7	69.1	69.2	69.6	69.6	69.6	69.7	69.7	69.7
≥ 3500		64.1	67.2	68.9	70.3	70.3	70.3	70.8	70.9	71.3	71.3	71.3	71.4	71.4	71.4
≥ 3000		71.4	72.5	74.5	75.9	75.9	75.9	76.3	76.5	76.9	76.9	76.9	77.0	77.0	77.0
≥ 2500		74.5	75.7	78.0	79.5	79.5	79.5	80.0	80.1	80.5	80.5	80.5	80.6	80.6	80.6
≥ 2000		77.1	78.5	81.1	83.1	83.1	83.1	83.7	83.8	84.2	84.2	84.2	84.3	84.3	84.3
≥ 1800		77.7	79.2	81.8	83.9	83.9	83.9	84.4	84.5	84.9	84.9	84.9	85.1	85.1	85.1
≥ 1500		80.2	82.0	84.7	86.8	86.8	86.8	87.4	87.5	88.0	88.0	88.0	88.1	88.1	88.1
≥ 1200		80.8	82.7	85.8	88.2	88.2	88.2	88.9	89.0	89.5	89.5	89.5	89.6	89.6	89.6
≥ 1000		82.2	84.2	87.5	90.2	90.2	90.2	91.6	91.7	92.2	92.2	92.2	92.3	92.3	92.3
≥ 900		82.5	84.8	88.6	91.0	91.0	91.0	92.6	92.7	93.1	93.1	93.1	93.2	93.2	93.2
≥ 800		82.6	84.8	88.6	91.7	91.7	91.7	94.0	94.2	94.6	94.6	94.6	94.7	94.7	94.7
≥ 700		82.7	84.9	88.9	92.0	92.0	92.0	94.4	94.6	95.1	95.1	95.1	95.2	95.2	95.2
≥ 600		82.7	85.1	89.2	92.6	92.6	92.6	94.9	95.3	95.7	95.7	95.7	95.8	95.8	95.8
≥ 500		82.7	85.1	89.4	93.0	93.0	93.0	96.1	96.7	97.2	97.2	97.2	97.3	97.3	97.3
≥ 400		82.7	85.1	89.4	93.2	93.2	93.2	96.5	97.0	98.1	98.1	98.1	98.4	98.4	98.4
≥ 300		82.7	85.1	89.4	93.2	93.2	93.2	96.5	97.0	98.2	98.2	98.2	98.5	98.5	98.5
≥ 200		82.7	85.1	89.4	93.2	93.2	93.2	96.5	97.0	98.2	98.2	98.2	98.7	98.7	98.7
≥ 100		82.7	85.1	89.4	93.2	93.2	93.2	96.5	97.0	98.2	98.2	98.2	98.8	98.8	98.8
≥ 0		82.7	85.2	89.5	93.3	93.3	93.3	96.6	97.1	98.3	98.3	98.3	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

920

DATA PROCESSING TKA, CH  
USAF ETAC  
AIR WEATHER SERVICE / IAC

# CEILING VERSUS VISIBILITY

14011 TURRETTA AF SPAIN/ MADRID

08-77

DEC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING		46.2	46.3	46.0	46.1	46.8	47.0	47.0	47.0	47.1	47.2	47.2	47.2	47.2	47.2	47.2
≥ 20000		54.2	54.8	55.5	56.2	56.2	56.6	56.6	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8
≥ 18000		54.4	54.7	55.4	56.3	56.3	56.8	56.8	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.0
≥ 16000		54.4	54.5	55.3	56.3	56.3	56.8	56.8	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.0
≥ 14000		54.4	55.1	55.7	56.5	56.5	56.9	56.9	56.9	57.0	57.1	57.1	57.1	57.1	57.1	57.1
≥ 12000		54.9	55.6	56.2	57.0	57.0	57.4	57.4	57.4	57.5	57.6	57.6	57.6	57.6	57.6	57.6
≥ 10000		55.5	56.1	57.0	57.7	57.7	58.2	58.2	58.2	58.3	58.4	58.4	58.4	58.4	58.4	58.4
≥ 9000		56.7	57.3	58.3	59.0	59.0	59.5	59.5	59.5	59.6	59.7	59.7	59.7	59.7	59.7	59.7
≥ 8000		59.8	60.4	61.4	62.3	62.3	62.7	62.7	62.7	62.8	62.9	62.9	62.9	62.9	62.9	62.9
≥ 7000		63.2	63.9	64.8	65.7	65.7	66.1	66.1	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3
≥ 6000		64.2	64.8	65.8	66.7	66.7	67.1	67.1	67.1	67.2	67.3	67.3	67.3	67.3	67.3	67.3
≥ 5000		65.6	66.2	67.2	68.2	68.2	68.6	68.6	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8
≥ 4500		67.3	68.1	69.3	70.0	70.0	70.4	70.4	70.4	70.5	70.6	70.6	70.6	70.6	70.6	70.6
≥ 4000		69.6	70.3	71.3	72.3	72.3	72.7	72.7	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9
≥ 3500		72.4	73.1	74.1	75.1	75.1	75.6	75.6	75.6	75.7	75.8	75.8	75.8	75.8	75.8	75.8
≥ 3000		76.2	77.0	78.2	79.2	79.2	79.8	79.8	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.0
≥ 2500		80.3	81.2	82.4	83.9	83.9	84.4	84.4	84.4	84.5	84.6	84.6	84.6	84.6	84.6	84.6
≥ 2000		82.4	83.5	85.2	86.6	86.6	87.3	87.3	87.3	87.6	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1800		83.4	84.8	86.2	87.8	87.8	88.7	88.9	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.1
≥ 1500		85.2	86.3	88.1	90.1	90.1	91.2	91.5	91.6	91.7	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1200		85.5	87.0	89.3	91.4	91.4	92.5	92.9	93.0	93.1	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1000		85.9	87.4	89.7	92.3	92.3	93.5	94.3	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6
≥ 900		86.1	87.6	89.9	92.5	92.5	94.0	94.7	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2
≥ 800		86.3	87.8	90.1	93.0	93.0	94.9	95.9	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3
≥ 700		86.5	88.0	90.2	93.1	93.1	96.1	96.3	96.3	96.5	96.6	96.6	96.6	96.6	96.6	96.6
≥ 600		87.0	88.5	90.8	93.7	93.7	96.7	96.9	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
≥ 500		87.7	88.9	90.9	93.8	93.8	95.9	97.1	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400		87.0	88.5	90.8	93.8	93.8	95.9	97.1	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7
≥ 300		87.0	88.5	90.9	93.8	93.8	95.9	97.1	97.6	97.8	98.1	98.3	98.3	98.3	98.3	98.3
≥ 200		87.0	88.5	90.9	93.8	93.8	95.9	97.1	97.6	97.8	98.1	98.4	98.4	98.4	98.4	98.4
≥ 100		87.0	88.5	90.9	93.8	93.8	95.9	97.1	97.6	97.8	98.1	98.4	98.4	98.4	98.4	98.4
≥ 0		87.0	88.5	90.9	93.8	93.8	95.9	97.1	97.6	97.8	98.1	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14011

TURRETTA AB SPAIN/MADRID

SR-77

YEAR

DEC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥0
NO CEILING		50.0	51.0	51.0	51.0	51.0	51.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 20000		56.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 18000		56.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 16000		56.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 14000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 12000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 10000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 9000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 8000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 7000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 6000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 5000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 4500		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 4000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 3500		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 3000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 2500		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 2000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1800		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1500		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1200		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1000		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 900		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 800		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 700		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 600		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 500		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 400		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 300		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 200		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 100		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 0		57.0	57.0	57.0	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC FORM JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR ENTERPRISE SERVICE/ETAC

# CEILING VERSUS VISIBILITY

14011 TURKEY AIR SPAIN/MADRID 68-77 DEC 2100-2300  
STATION NAME MONTH HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 0
NO CEILING																
≥ 20000	51.0	52.2	52.4	52.4	53.3	53.3	53.3	53.3	53.9	54.0	54.3	54.3	54.3	54.3	54.3	54.3
≥ 18000	55.0	57.1	57.1	57.1	58.3	58.3	58.3	58.3	58.7	58.8	59.2	59.2	59.2	59.2	59.2	59.2
≥ 16000	57.0	57.2	57.2	57.2	58.4	58.4	58.4	58.4	58.8	58.9	59.4	59.4	59.4	59.4	59.4	59.4
≥ 14000	57.0	57.2	57.2	57.2	58.4	58.4	58.4	58.4	58.8	58.9	59.4	59.4	59.4	59.4	59.4	59.4
≥ 12000	57.2	57.4	57.4	57.4	58.6	58.6	58.6	58.6	59.0	59.1	59.6	59.6	59.6	59.6	59.6	59.6
≥ 10000	57.4	57.6	57.6	57.6	58.8	58.8	58.8	58.8	59.2	59.4	59.8	59.8	59.8	59.8	59.8	59.8
≥ 9000	57.6	57.8	57.8	57.8	59.0	59.0	59.0	59.0	59.4	59.9	60.3	60.3	60.3	60.3	60.3	60.3
≥ 8000	57.8	58.0	58.0	58.0	59.2	59.2	59.2	59.2	59.6	60.0	60.3	60.3	60.3	60.3	60.3	60.3
≥ 7000	58.0	58.2	58.2	58.2	59.4	59.4	59.4	59.4	59.8	60.2	60.6	60.6	60.6	60.6	60.6	60.6
≥ 6000	58.2	58.4	58.4	58.4	59.6	59.6	59.6	59.6	60.0	60.4	60.8	60.8	60.8	60.8	60.8	60.8
≥ 5000	58.4	58.6	58.6	58.6	59.8	59.8	59.8	59.8	60.2	60.6	61.0	61.0	61.0	61.0	61.0	61.0
≥ 4500	58.6	58.8	58.8	58.8	60.0	60.0	60.0	60.0	60.4	60.8	61.2	61.2	61.2	61.2	61.2	61.2
≥ 4000	58.8	59.0	59.0	59.0	60.2	60.2	60.2	60.2	60.6	61.0	61.4	61.4	61.4	61.4	61.4	61.4
≥ 3500	59.0	59.2	59.2	59.2	60.4	60.4	60.4	60.4	60.8	61.2	61.6	61.6	61.6	61.6	61.6	61.6
≥ 3000	59.2	59.4	59.4	59.4	60.6	60.6	60.6	60.6	61.0	61.4	61.8	61.8	61.8	61.8	61.8	61.8
≥ 2500	59.4	59.6	59.6	59.6	60.8	60.8	60.8	60.8	61.2	61.6	62.0	62.0	62.0	62.0	62.0	62.0
≥ 2000	59.6	59.8	59.8	59.8	61.0	61.0	61.0	61.0	61.4	61.8	62.2	62.2	62.2	62.2	62.2	62.2
≥ 1800	59.8	60.0	60.0	60.0	61.2	61.2	61.2	61.2	61.6	62.0	62.4	62.4	62.4	62.4	62.4	62.4
≥ 1500	60.0	60.2	60.2	60.2	61.4	61.4	61.4	61.4	61.8	62.2	62.6	62.6	62.6	62.6	62.6	62.6
≥ 1200	60.2	60.4	60.4	60.4	61.6	61.6	61.6	61.6	62.0	62.4	62.8	62.8	62.8	62.8	62.8	62.8
≥ 1000	60.4	60.6	60.6	60.6	61.8	61.8	61.8	61.8	62.2	62.6	63.0	63.0	63.0	63.0	63.0	63.0
≥ 900	60.6	60.8	60.8	60.8	62.0	62.0	62.0	62.0	62.4	62.8	63.2	63.2	63.2	63.2	63.2	63.2
≥ 800	60.8	61.0	61.0	61.0	62.2	62.2	62.2	62.2	62.6	63.0	63.4	63.4	63.4	63.4	63.4	63.4
≥ 700	61.0	61.2	61.2	61.2	62.4	62.4	62.4	62.4	62.8	63.2	63.6	63.6	63.6	63.6	63.6	63.6
≥ 600	61.2	61.4	61.4	61.4	62.6	62.6	62.6	62.6	63.0	63.4	63.8	63.8	63.8	63.8	63.8	63.8
≥ 500	61.4	61.6	61.6	61.6	62.8	62.8	62.8	62.8	63.2	63.6	64.0	64.0	64.0	64.0	64.0	64.0
≥ 400	61.6	61.8	61.8	61.8	63.0	63.0	63.0	63.0	63.4	63.8	64.2	64.2	64.2	64.2	64.2	64.2
≥ 300	61.8	62.0	62.0	62.0	63.2	63.2	63.2	63.2	63.6	64.0	64.4	64.4	64.4	64.4	64.4	64.4
≥ 200	62.0	62.2	62.2	62.2	63.4	63.4	63.4	63.4	63.8	64.2	64.6	64.6	64.6	64.6	64.6	64.6
≥ 100	62.2	62.4	62.4	62.4	63.6	63.6	63.6	63.6	64.0	64.4	64.8	64.8	64.8	64.8	64.8	64.8
≥ 0	62.4	62.6	62.6	62.6	63.8	63.8	63.8	63.8	64.2	64.6	65.0	65.0	65.0	65.0	65.0	65.0

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING SECTION  
USAF ETAC  
AIR WEATHER SERVICE/14C

# CEILING VERSUS VISIBILITY

14011

T-REJ-1 A SPAIN/LADKID

8-77

DEC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 0
NO CEILING ≥ 20000	47.4	47.4	48.4	48.4	48.4	49.4	49.4	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 18000	52.6	53.1	53.1	53.1	54.5	54.5	55.0	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 16000	52.7	53.2	53.2	53.2	54.6	54.6	55.1	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 14000	52.7	53.2	53.2	53.2	54.6	54.6	55.1	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 12000	52.8	53.4	53.4	53.4	54.8	54.8	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 10000	53.2	53.4	53.4	53.4	54.8	54.8	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 8000	53.9	54.4	54.4	54.4	55.2	55.2	55.7	55.7	56.0	56.0	56.2	56.2	56.2	56.2	56.2
≥ 7000	55.0	55.0	55.0	55.0	56.0	56.0	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 6000	58.4	59.1	59.1	59.1	60.9	60.9	61.4	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 5000	62.4	63.1	63.1	63.1	64.9	64.9	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 4500	63.7	64.4	64.4	64.4	66.2	66.2	66.8	66.8	67.1	67.1	67.3	67.3	67.3	67.3	67.3
≥ 4000	65.1	65.9	65.9	65.9	67.8	67.8	68.3	68.3	68.6	68.6	68.9	68.9	68.9	68.9	68.9
≥ 3500	66.3	67.0	67.0	67.0	69.0	69.0	69.5	69.5	70.4	70.4	70.7	70.7	70.7	70.7	70.7
≥ 3000	67.8	68.6	68.6	68.6	70.9	70.9	71.4	71.4	71.8	71.8	72.1	72.1	72.1	72.1	72.1
≥ 2500	69.3	70.4	70.4	70.4	72.8	72.8	73.4	73.4	73.7	73.7	74.1	74.1	74.1	74.1	74.1
≥ 2000	73.7	74.5	74.5	74.5	77.2	77.2	77.8	77.8	78.1	78.2	78.5	78.5	78.5	78.5	78.5
≥ 1800	76.8	77.7	77.7	77.7	80.5	80.5	81.2	81.2	81.5	81.6	81.8	81.8	81.8	81.8	81.8
≥ 1600	79.2	80.4	80.4	80.4	83.2	83.2	84.4	84.4	84.7	84.8	85.0	85.1	85.1	85.1	85.1
≥ 1400	79.8	80.9	80.9	80.9	84.3	84.3	85.0	85.0	85.4	85.4	85.7	85.7	85.7	85.7	85.7
≥ 1200	81.8	83.1	83.1	83.1	86.7	86.7	87.5	87.5	87.9	88.0	88.3	88.3	88.3	88.3	88.3
≥ 1000	82.7	84.0	84.0	84.0	88.1	88.1	89.0	89.0	89.5	89.6	89.9	89.9	89.9	89.9	89.9
≥ 900	83.4	84.6	84.6	84.6	89.2	89.2	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 800	83.7	85.1	85.1	85.1	89.7	89.7	90.2	90.2	91.0	91.1	91.4	91.4	91.4	91.4	91.4
≥ 700	83.8	85.2	85.2	85.2	90.2	90.2	91.6	91.6	92.4	92.5	92.8	92.8	92.8	92.8	92.8
≥ 600	84.1	85.6	85.6	85.6	90.8	90.8	92.3	92.3	93.1	93.3	93.6	93.6	93.6	93.6	93.6
≥ 500	84.3	85.8	85.8	85.8	91.3	91.3	92.9	92.9	93.8	94.0	94.2	94.3	94.3	94.3	94.3
≥ 400	84.4	85.9	85.9	85.9	91.7	91.7	93.4	93.4	94.5	94.7	95.0	95.1	95.2	95.2	95.2
≥ 300	84.4	86.0	86.0	86.0	91.9	91.9	93.7	93.7	94.9	95.2	95.7	95.8	95.8	95.8	95.8
≥ 200	84.4	86.0	86.0	86.0	92.0	92.0	93.8	93.8	95.0	95.5	96.0	96.2	96.3	96.3	96.3
≥ 100	84.4	86.0	86.0	86.0	92.1	92.1	93.9	93.9	95.2	95.6	96.3	96.5	96.7	96.7	96.7
≥ 0	84.4	86.0	86.0	86.0	92.1	92.1	94.0	94.0	95.3	95.7	96.4	96.6	96.9	97.1	97.1

TOTAL NUMBER OF OBSERVATIONS 7439

USAF ETAC 0-11-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/AFAC

# CEILING VERSUS VISIBILITY

14011

TURKEY AIR SPAIN/AD/AD

8-75

ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES											
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥0
NO CEILING												
≥ 20000	62.4	62.7	63.0	63.3	63.6	63.9	64.2	64.5	64.8	65.1	65.4	65.7
≥ 18000	69.4	69.8	70.2	70.6	71.0	71.4	71.8	72.2	72.6	73.0	73.4	73.8
≥ 16000	70.0	70.3	70.7	71.1	71.5	71.9	72.3	72.7	73.1	73.5	73.9	74.3
≥ 14000	70.1	70.5	70.9	71.3	71.7	72.1	72.5	72.9	73.3	73.7	74.1	74.5
≥ 12000	70.2	70.6	71.0	71.4	71.8	72.2	72.6	73.0	73.4	73.8	74.2	74.6
≥ 10000	70.8	71.2	71.6	72.0	72.4	72.8	73.2	73.6	74.0	74.4	74.8	75.2
≥ 8000	72.1	72.5	72.9	73.3	73.7	74.1	74.5	74.9	75.3	75.7	76.1	76.5
≥ 6000	73.4	73.8	74.2	74.6	75.0	75.4	75.8	76.2	76.6	77.0	77.4	77.8
≥ 5000	77.4	77.7	78.1	78.5	78.9	79.3	79.7	80.1	80.5	80.9	81.3	81.7
≥ 4500	80.4	80.7	81.1	81.5	81.9	82.3	82.7	83.1	83.5	83.9	84.3	84.7
≥ 4000	81.1	81.4	81.8	82.2	82.6	83.0	83.4	83.8	84.2	84.6	85.0	85.4
≥ 3500	82.4	82.7	83.1	83.5	83.9	84.3	84.7	85.1	85.5	85.9	86.3	86.7
≥ 3000	83.5	83.8	84.2	84.6	85.0	85.4	85.8	86.2	86.6	87.0	87.4	87.8
≥ 2500	84.0	84.3	84.7	85.1	85.5	85.9	86.3	86.7	87.1	87.5	87.9	88.3
≥ 2000	84.5	84.8	85.2	85.6	86.0	86.4	86.8	87.2	87.6	88.0	88.4	88.8
≥ 1800	84.9	85.2	85.6	86.0	86.4	86.8	87.2	87.6	88.0	88.4	88.8	89.2
≥ 1500	85.3	85.6	86.0	86.4	86.8	87.2	87.6	88.0	88.4	88.8	89.2	89.6
≥ 1200	85.7	86.0	86.4	86.8	87.2	87.6	88.0	88.4	88.8	89.2	89.6	90.0
≥ 1000	86.1	86.4	86.8	87.2	87.6	88.0	88.4	88.8	89.2	89.6	90.0	90.4
≥ 800	86.5	86.8	87.2	87.6	88.0	88.4	88.8	89.2	89.6	90.0	90.4	90.8
≥ 700	86.9	87.2	87.6	88.0	88.4	88.8	89.2	89.6	90.0	90.4	90.8	91.2
≥ 600	87.3	87.6	88.0	88.4	88.8	89.2	89.6	90.0	90.4	90.8	91.2	91.6
≥ 500	87.7	88.0	88.4	88.8	89.2	89.6	90.0	90.4	90.8	91.2	91.6	92.0
≥ 400	88.1	88.4	88.8	89.2	89.6	90.0	90.4	90.8	91.2	91.6	92.0	92.4
≥ 300	88.5	88.8	89.2	89.6	90.0	90.4	90.8	91.2	91.6	92.0	92.4	92.8
≥ 200	88.9	89.2	89.6	90.0	90.4	90.8	91.2	91.6	92.0	92.4	92.8	93.2
≥ 100	89.3	89.6	90.0	90.4	90.8	91.2	91.6	92.0	92.4	92.8	93.2	93.6
≥ 50	89.7	90.0	90.4	90.8	91.2	91.6	92.0	92.4	92.8	93.2	93.6	94.0
≥ 20	90.1	90.4	90.8	91.2	91.6	92.0	92.4	92.8	93.2	93.6	94.0	94.4
≥ 10	90.5	90.8	91.2	91.6	92.0	92.4	92.8	93.2	93.6	94.0	94.4	94.8
≥ 5	90.9	91.2	91.6	92.0	92.4	92.8	93.2	93.6	94.0	94.4	94.8	95.2
≥ 2	91.3	91.6	92.0	92.4	92.8	93.2	93.6	94.0	94.4	94.8	95.2	95.6
≥ 1	91.7	92.0	92.4	92.8	93.2	93.6	94.0	94.4	94.8	95.2	95.6	96.0

TOTAL NUMBER OF OBSERVATIONS 87484

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PART I

# PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

- \* 1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

- \* 2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Mean standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

\* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.

- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

## DAILY TEMPERATURES

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

14011	TORREJON AB SPAIN/MADRID
ATION	STATION NAME

YEARS

# MAXIMUM

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)**

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
105							3	2					0
100						2	3.2	1.9					4
95						3.8	21.3	14.4	7				3.3
90						13.5	50.0	41.9	11.0				9.7
85					7.4	31.2	78.9	67.6	25.8	.9			17.5
80				7	20.5	53.5	94.2	87.7	52.2	5.5			26.0
75			1.0	4.9	37.7	71.7	97.9	96.9	73.8	16.5	.5		33.0
70		.2	5.8	18.3	56.3	86.5	100.0	99.7	85.8	36.5	1.4		40.5
65	.5	3.5	18.1	40.4	73.9	95.2		100.0	95.3	62.3	8.1		49.6
60	4.8	18.2	37.6	68.7	91.8	99.0			98.7	86.6	26.0	4.6	60.9
55	23.3	40.2	66.1	88.8	98.1	100.0			100.0	96.5	56.7	19.7	73.7
50	52.8	74.3	88.7	98.5	100.0					100.0	86.7	53.1	87.6
45	81.6	93.1	98.1	99.5							98.1	80.2	93.8
40	96.3	98.6	99.5	100.0							99.8	96.0	99.2
35	99.8	99.2	100.0								100.0	99.4	99.9
30	100.0	100.0										100.0	100.0
MEAN	49.9	53.2	57.6	63.0	71.3	79.9	89.3	87.6	79.2	67.3	55.7	49.6	67.0
S. D.	5.757	6.294	7.211	7.003	8.791	8.758	5.988	6.490	8.032	7.289	6.043	5.696	15.488
TOTAL OBS.	648	592	619	597	620	600	620	620	600	650	630	650	7446

# DAILY TEMPERATURES

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC  
14011 TURREJON AR SPAIN/MADRID  
STATION NAME

57-78

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
75							.2	.2					0
70						.3	2.6	1.1	.2				.2
65					.2	3.0	15.8	12.3	2.2				2.8
60					1.5	20.7	57.7	50.0	15.7	.9			12.1
55				.5	12.1	49.8	84.5	82.9	49.0	9.5	.2		23.8
50	1.7	.8	3.6	8.7	41.6	77.7	99.5	96.5	77.7	34.6	4.1	1.2	37.0
45	7.3	7.6	15.5	32.3	65.2	93.7	100.0	99.5	94.2	64.2	17.8	7.4	50.0
40	22.7	24.7	37.6	63.0	85.6	98.8	100.0	100.0	98.5	85.1	42.2	23.4	64.8
35	43.4	53.7	68.7	87.4	98.4	100.0			100.0	95.5	68.4	46.5	79.9
30	53.4	63.3	75.0	92.8	99.4					97.7	76.2	56.5	84.3
25	68.5	79.9	88.7	97.5	99.8					99.4	88.1	71.8	91.0
20	89.4	92.6	96.8	99.5	100.0					99.8	97.0	87.8	96.8
15	98.8	99.0	99.5	100.0						100.0	100.0	98.6	99.7
10	99.8	99.7	100.0									99.8	99.9
0	100.0	99.8										100.0	100.0
		100.0											100.0
MEAN	33.6	34.8	37.4	41.5	47.1	54.0	60.0	59.0	53.7	46.4	37.9	32.8	44.9
S.D.	7.283	6.878	6.720	5.996	6.206	6.030	5.011	5.033	5.684	6.406	6.988	7.416	11.369
TOTAL OBS.	648	592	619	597	620	600	620	620	600	650	630	650	7446

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

14011

TORREJON AB SPAIN/MADRID  
STATION NAME

27-78

YEARS

24  
W  
3

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)**

[illegible]

USAF ETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF/ETAC/DL A  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

## MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

14011 STATION TARRAGONA AB SPAIN/MADRID 57-78 YEARS

### WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB.	MAR.	APR	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
57	*	57*	69*	71	82	86	87	100	97	*	73	64*	52
58													64
59													64
60	*	66	74	79*	77	92	97	98	95	93	66	65	55
61													61
62													60
63													54
64													59
65													60
66													59
67													60
68													58
69													61
70													59
71													58
72													62
73													60
74													59
75													64
76													57
77													62
78													62
MEAN	59.1	63.0	69.8	75.6	85.1	93.6	99.2	98.1	90.0	79.1	66.6	59.6	100.4
S.D.	3.365	5.073	5.554	3.745	4.729	3.267	2.858	3.275	5.021	5.316	3.815	2.645	3.034
TOTAL OBS.	448	592	619	597	620	600	620	620	600	650	530	650	7446

NOTES \* (BASED ON LESS THAN FULL MONTHS) # (AT LEAST ONE DAY LESS THAN 24 OBS)

USAF ETAC FORM 0-88-5 (OIA)



DATA PROCESSING BRANCH  
USAF/ETAC/DL A  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

## MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

14011 STATION TARRAGONA, SPAIN/MARSA MATRUH STATION NAME 57-78 YEARS

### WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
57	* 22*	23*	24	32	43	49	52	51	56	* 39	32*	27	* 22
58	30	31	36	41	39	47	57	56	52	43	35	30	30
59	* 25	26	37*	34	39	55	54	53	49	37	30	26	* 25
60	25	31	34	39	44	44	53	54	49	39	32	24	24
61	27	27	28	32	34	39	50	52	47	38	22	11	11
62	23	3	28	29	37	41	48	48	48	39	33	22	3
63	22	20	25	33	41	45	54	50	47	29	28	21	20
64	22	19	23	31	41	42	51	47	39	43	23	25	19
65	28	22	27	36	35	44	50	49	43	31	25	20	20
66	21	25	25	28	35	42	50	48	43	31	30	17	17
67	15	24	28	28	33	37	50	51	41	38	26	23	15
68	19	21	20	32	39	39	50	49	40	37	24	15	19
69	25	24	21	26	28	44	51	53	42	28	30	17	17
70	12	24	17	35	35	39	51	44	39	37	21	21	12
71	17	26	26	24	30	37	48	46	39	33	26	24	17
72	19	19	19	21	35	46	51	53	37	35	23	24	19
73	26	26	24	33	33	42	50	44	37	24	21	24	21
74	21	31	26	26	32	39	53	46	39	30	24	21	21
75	24	24	24	32	37	42	55	55	44	33	24	30	24
76	28	32	21	30	33	39	48	47	46	41	24	30	21
77	24	19											
78													
MEAN	22.6	24.2	26.1	30.9	36.2	42.6	51.3	49.7	43.9	35.4	26.9	23.2	18.3
S.D.	4.705	6.588	5.254	4.938	4.246	4.406	2.408	3.746	5.254	5.246	4.323	5.324	5.811
TOTAL OBS.	548	592	619	597	620	600	620	620	600	650	630	650	7446

USAF ETAC FORM 0-88-5 (OLA) # (AT LEAST ONE DAY LESS THAN FULL MONTHS) NOTES \* (BASED ON LESS THAN FULL MONTHS)

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURKEYJN AB SPAIN/MADRID 69-78 YEARS JAN MONTH  
PAGE 1 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		D.B./W.B.	MEAN NO. OF HOURS WITH TEMPERATURE												No. Obs.	Σ X	Σ X <sup>2</sup>	Element (X)
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point	≤ 0 F		≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
56/ 55		.3																3	3	7																		
54/ 53		1.1	.4															14	14	11	9																	
52/ 51	.1	1.3	.9	.2														23	23	22	20																	
50/ 49		2.9	1.1	.1	.1													39	39	36	23																	
48/ 47	.2	3.2	.9	.1	.1													42	42	39	35																	
46/ 45		5.9	.8	.2														64	64	74	40																	
44/ 43	.3	7.6	1.2	.4														89	89	89	57																	
42/ 41	.4	7.2	1.0	.3														83	83	89	57																	
40/ 39	.3	4.4	1.8	.8														68	68	79	81																	
38/ 37	.1	3.4	2.2	.3														56	56	61	77																	
36/ 35	.5	7.6	3.5	.2														111	111	59	63																	
34/ 33	.6	7.5	1.9															94	94	123	49																	
32/ 31	1.2	8.7	1.4															105	105	104	100																	
30/ 29	1.2	5.9	1.0															75	75	114	109																	
28/ 27	.8	2.2	.4															31	31	61	92																	
26/ 25		2.0	.3															22	22	26	75																	
24/ 23	.1	.2	.2															5	5	14	45																	
22/ 21		.4																4	4	4	23																	
20/ 19		.1																1	1	5	14																	
18/ 17		.1																1	1	2	3																	
16/ 15																					2																	
14/ 13																					10																	
12/ 11																					1																	
10/ 9																					2																	
TOTAL	5.9	72.3	18.9	2.7	.2													930	930	930	930																	

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TARRAJEN AB SPAIN/MADRID 09-78

JAN  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
56/ 55		.6																6	6	6	
54/ 53		.6	.4		.2													12	12	13	8
52/ 51		1.1	1.1	.2														13	13	22	13
50/ 49	.1	2.5	.3															27	27		
48/ 47		2.5	.8															30	30	22	18
46/ 45	.3	3.7	1.0	.2	.1													49	49	38	24
44/ 43	.4	7.1	1.4	.3														86	86	51	36
42/ 41	.5	7.8	1.7	.4														98	98	93	67
40/ 39	.0	5.9	1.6	.3														80	80	78	72
38/ 37	.5	3.8	1.5	.2														56	56	74	81
36/ 35	.1	6.6	1.9	.5														87	87	57	65
34/ 33	.2	5.7	1.7	.1														75	75	91	47
32/ 31	.3	6.1	1.0															69	69	81	60
30/ 29	1.2	8.8																93	93	123	87
28/ 27	2.5	5.7	.8															83	83	97	99
26/ 25	1.3	2.2	.2															34	34	50	82
24/ 23	.2	1.3	.4															18	18	12	94
22/ 21	.5	.3																8	8	17	34
20/ 19		.2																2	2	4	14
18/ 17																					12
16/ 15		.3	.1															4	4	1	3
14/ 13																				2	2
12/ 11																				1	4
10/ 9																					4
8/ 7																					3
0/ -1																					1
TOTAL	9.473	0.014	.9	2.4	.3													930	930	930	930
								</													

Mean No. of Hours with Temperature

Element (X)	Z X <sup>2</sup>	Z X	X̄	S <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	6665000	78278	44.2	9.066	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 93 F	Total
Dry Bulb	1302687	34097	36.7	7.523	930		31.1				93
Wet Bulb	1185781	32511	35.0	7.282	930		39.0				93
Dew Point	1024855	29991	32.2	8.215	930	.1	49.9				93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURRENTIN AF SPAIN/MADRID YEARS 69-78 MONTH JAN  
PAGE 1 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
																						TOTAL
56/ 55		.3	.2															5	5			
54/ 53		1.0	.4	.1	.2													16	16	5		
52/ 51	.1	1.2		.1														12	13	18	6	
50/ 49	.3	2.3	.4	.1														29	29	15	27	
48/ 47	.1	3.1	.4	.1														35	35	24	16	
46/ 45	.6	3.8	.3	.1														45	45	41	24	
44/ 43	.4	5.8	.9	.2														68	68	47	38	
42/ 41	.2	7.2	.3	.2														74	74	71	46	
40/ 39	.8	6.4	1.6	.3														84	84	89	72	
38/ 37	.6	5.2	1.8															71	71	69	81	
36/ 35	.4	5.8	1.9	.2														78	78	62	61	
34/ 33	.6	5.2	1.0	.2														65	65	94	56	
32/ 31	.3	7.3	1.4															84	84	53	75	
30/ 29	2.0	6.0	.6															81	81	102	64	
28/ 27	1.6	5.6	.4															73	73	81	91	
26/ 25	2.2	4.2	.2															61	61	88	63	
24/ 23	.5	1.9	.1															24	24	36	92	
22/ 21	.1	.9	.2															11	11	18	51	
20/ 19		.4																4	5	7	28	
18/ 17	.1		.1															2	2	3	17	
16/ 15		.1																1	1		4	
14/ 13		.2																2	2	3	7	
12/ 11		.1																1	1	2	1	
10/ 9																					5	
8/ 7																					1	
6/ 5																					1	
4/ 3																					1	
TOTAL	11.4	74.0	2.5	1.7	.2													928	929	928	928	

Element (X)	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Σ 93 F	Total
Rel. Hum.	6766436	84.9	4.927	928	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F		93
Dry Bulb	1271146	36.1	8.047	929		34.5					93
Wet Bulb	1162115	34.5	7.763	928		39.4					93
Dew Point	1016476	31.9	8.661	928		50.2					93

Mean No. of Hours with Temperature

Element (X)	Σx	Σx²	Σ	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	6766436	78808	84.9	4.927	928	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	Total
Dry Bulb	1271146	33542	36.1	8.047	929		34.5				93
Wet Bulb	1162115	32055	34.5	7.763	928		39.4				93
Dew Point	1016476	29644	31.9	8.661	928		50.2				93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURRETON AB SPAIN/MADRID 69-78 YEARS JAN MONTH

PAGE 1 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
58/ 57			.3	.1			.1											5	5		
56/ 55		.3	.5				.1											9	9	2	
54/ 53		1.4	.6	.5	.2	.5												30	30	5	
52/ 51		.6	.7	.5	.1	.1												20	20	20	9
50/ 49	.2	2.4	1.5	.1	.4	.1												44	44	21	22
48/ 47	.4	2.6	2.7	1.4	.4													69	69	42	22
46/ 45	.2	5.7	3.0	1.3	.2													97	97	59	29
44/ 43	.1	5.7	2.8	2.3	.3	.1												109	109	79	44
42/ 41		7.6	4.4	2.3	.3	.2												139	139	120	77
40/ 39	.4	4.3	5.0	1.1	.3	.1												104	104	106	86
38/ 37	.3	4.4	3.4	1.0	.2													87	87	113	102
36/ 35	.2	3.3	2.7	.4	.1													63	63	107	87
34/ 33	.3	5.2	1.5	.2														67	67	81	86
32/ 31	.1	3.1	1.0	.3														42	43	81	77
30/ 29	.1	1.8	.1	.1														20	20	50	91
28/ 27	.2	1.0		.1														12	12	24	82
26/ 25		.5	.2															7	7	7	43
24/ 23		.1	.1															2	2	7	30
22/ 21		.1																1	1	1	16
20/ 19		.1																1	1	2	8
18/ 17																				1	2
16/ 15																					3
14/ 13																					5
12/ 11																					5
10/ 9																					2
TOTAL	2.650	50.5	10.5	1.7	3.1	.9	.2											928	929	928	928

Mean No. of Hours with Temperature

Element (X)	Zx'	Zx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature	Total
Rel. Hum.	5829921	72661	78.3	12.319	928	≥ 80 F	93
Dry Bulb	1610465	38225	41.1	6.369	928	≥ 73 F	93
Wet Bulb	1399460	35584	38.3	6.144	928	≥ 67 F	93
Dew Point	1162511	32131	34.6	7.418	928	≥ 62 F	93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AFB SPAIN/MADRID  
STATION NAME

69-74

YEARS

JAN  
MONTH

PAGE 1

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
70/ 62													.1					1	1		
68/ 67												.1						1	1		
66/ 65									.1									2	2		
64/ 63									.2									2	2		
62/ 61					.1			.1	.3									5	5		
60/ 59					.1	.2		.3	.2									8	8		
58/ 57		.1	.3	.4	.5	.6		.4										34	34	4	
56/ 55		.2	1.6	1.1	.6	1.7	1.0	.1										61	61		
54/ 53		1.0	1.6	2.6	2.3	2.2	.4											93	93	14	
52/ 51		1.2	2.2	3.0	2.7	1.4												97	97	38	
50/ 49		1.7	4.2	3.4	3.5	1.6	.1											136	136	58	
48/ 47		2.3	4.5	3.8	3.3	.6	.1	.1										137	137	90	
46/ 45		2.6	3.0	3.9	2.3	.3	.1											115	115	128	
44/ 43		2.2	1.5	3.0	2.3	.3	.1											91	91	158	
42/ 41		1.0	1.3	1.8	.4													53	53	133	
40/ 39		1.2	1.6	1.4	.1													40	40	105	
38/ 37		.6	.6	.1		.2												16	16	37	
36/ 35	.2	1.0	.2		.3													18	18	59	
34/ 33		1.2	.2	.1	.2													16	16	31	
32/ 31		.2	.1	.1														4	4	10	
30/ 29																				7	
28/ 27																				6	
26/ 25																				2	
24/ 23																				21	
22/ 21																				8	
20/ 19																				4	
18/ 17																				4	
16/ 15																				5	
14/ 13																				6	
12/ 11																				7	
10/ 9																				1	
TOTAL	.217	.424	.324	.719	.0	9.0	2.9	1.3	.3			.1	.1					930	930	930	
Element (X)	Zx'	Zx	X	X	No. Obs.	Mean No. of Hours with Temperature														Total	
Rel. Hum.	4217079	60945	65.5	5.5	930	≥ 80 F														93 F	
Dry Bulb	2170442	44596	48.0	5.8	930	≥ 73 F														93	
Wet Bulb	1707955	39565	42.5	5.1	930	≥ 67 F														93	
Dew Point	1262354	33670	36.2	7.2	930	≥ 62 F														93	

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJEN AB SPAIN/MADRID 69-76 YEARS PAGE 1 1500-1700 JAN MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
70/ 69												.1						1	1		
68/ 67											.1							1	1		
66/ 65																		3	3		
64/ 63																		5	5		
62/ 61				.2	.1	.2	.2	.5	.1									11	11		
60/ 59			.3	.3	.3	.3	.5	.8	.1									29	29		
58/ 57			1.2	1.3	1.3	.3	1.4	1.4										57	57		
56/ 55		.1	1.7	2.0	2.0	1.3	1.9	.1										58	58	2	
54/ 53		.8	1.2	2.4	2.4	1.4	2.4	.2										98	98	18	
52/ 51	.2	2.2	4.0	2.9	2.9	2.8	1.1	.1										66	66	49	
50/ 49	.1	1.3	3.1	2.9	3.1	1.0	.3	.1										122	122	25	
48/ 47		3.2	4.2	2.8	2.2	.2	.2											110	110	14	
46/ 45		2.7	2.3	3.4	2.7	.1	.1											119	119	65	
44/ 43		1.7	2.5	1.5	.4	.2												105	105	122	
42/ 41		.6	2.2	.5	.4													59	59	155	
40/ 39		.2	.9	.3	.1													35	35	89	
38/ 37	.2	1.2	.2	.2	.1													16	16	91	
36/ 35	.2	1.0	.1	.2														18	18	81	108
34/ 33	.1	.1																13	13	57	92
32/ 31	.1																	2	2	33	81
30/ 29		.1	.1															2	2	12	82
28/ 27																				6	80
26/ 25																				4	56
24/ 23																				2	27
22/ 21																					16
20/ 19																					2
18/ 17																					4
16/ 15																					8
14/ 13																					7
12/ 11																					4
10/ 9																					1
TOTAL	1.0	16.8	5.3	1.4	17.6	9.7	4.3	3.0	.6	.1	.1	.1						930	930	930	
Element (X)	Z <sub>X</sub>	Z <sub>X</sub>	Z <sub>X</sub>	Z <sub>X</sub>	Z <sub>X</sub>	Z <sub>X</sub>	Z <sub>X</sub>	Z <sub>X</sub>	Z <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature										
Rel. Hum.	4156802	60278	64.8	16.401	930											Total					
Dry Bulb	2223582	45096	48.5	5.299	930													93			
Wet Bulb	1732616	39846	42.8	5.230	930													93			
Dew Point	1275457	33763	36.3	7.315	930													93			

REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

USAF ETAC



DATA PROCESSING R&A, CH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJUN, AP SPAIN/MADRID 59-78 YEARS PAGE 1 1800-2000 JAN MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
58/ 57			.2															2	2	2	
56/ 55			.2	.1		.1												4	4	4	2
54/ 53		1.2	1.9	.8	.1	.3												40	40	7	7
52/ 51		1.8	1.8	.5	.1	.3	.1											44	44	15	11
50/ 49	.1	3.4	3.1	.6	.1	.2												71	71	43	28
48/ 47		2.7	3.9	.8	.2	.1												71	71	53	34
46/ 45		5.4	4.0	2.2	.6													113	113	62	41
44/ 43	.2	7.0	4.5	2.6	.8													140	140	94	54
42/ 41		4.5	4.6	2.3	.3													109	109	129	68
40/ 39		3.3	5.4	2.4	.1													109	109	105	80
38/ 37	.5	3.6	4.1	.8														83	83	126	94
36/ 35	.4	2.4	2.9	.1														54	54	109	96
34/ 33	.1	3.2	.9	.3														42	42	92	81
32/ 31	.3	1.8	1.0	.1														30	30	46	122
30/ 29	.1	.4	.3															10	10	19	81
28/ 27		.2	.3															5	5	15	65
26/ 25		.1																1	1	10	36
24/ 23		.1																1	1	1	12
22/ 21																				1	4
20/ 19																					8
18/ 17																					8
16/ 15																					6
TOTAL	1.0	41.2	39.9	13.5	2.4	1.1	.1											929	929	929	929

Element (X)	Zx <sup>2</sup>	Zx	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total	
Rel. Hum.	5644234	71596	77.1	11.675	929	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Dry Bulb	1715378	39548	42.6	5.854	929		4.7					93	
Wet Bulb	1403012	36730	39.5	5.762	929		9.2					93	
Dew Point	1226778	33108	35.6	7.106	929		34.2					93	

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAO

# PSYCHROMETRIC SUMMARY

STATION 14-11 TURKISH AIRMAN/MAJID 69-78  
STATION NAME  
PAGE 1 2100-2300  
MONTH JAN  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	J	≥ 31	D.B./W.B.	Wet Bulb	Dew Point
56/ 55		.4																4	4	
54/ 53		.9		.1														16	16	5
52/ 51		1.4	1.3	.2														29	29	12
50/ 49		2.7	1.5	.5														44	44	25
48/ 47	.1	3.1	1.6	.1	.1													47	47	48
46/ 45	.1	4.8	.9															54	54	48
44/ 43	.4	7.7	2.9	.5	.2													110	110	61
42/ 41	.3	7.2	4.2	.9	.1													124	124	112
40/ 39	.2	3.3	3.5	1.5														81	81	85
38/ 37	.2	4.7	4.6	.2														93	93	72
36/ 35	.2	6.2	4.4	.2														103	103	103
34/ 33	1.0	5.8	3.2															93	93	123
32/ 31	.9	4.6	1.0															60	60	102
30/ 29	.2	3.7	.5															41	41	85
28/ 27	.3	1.2	.3															19	19	29
26/ 25		.5	.1															6	6	11
24/ 23		.4																4	4	4
22/ 21		.2																2	2	2
20/ 19																				
18/ 17																				
16/ 15																				
14/ 13																				
TOTAL	4.15	9.7	31.5	4.3	.4													930	930	930

Element (X)	ΣX <sup>2</sup>	ΣX	K̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature								
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Rel. Hum.	6246970	75714	81.4	9.445	930									
Dry Bulb	1492044	36762	39.5	6.469	930		13.2							93
Wet Bulb	1331561	34687	37.3	6.380	930		23.8							93
Dew Point	1136889	31793	34.2	7.338	930		42.4							93

USAF ETAC

FORM 0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/MADRID 69-73

JAN  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
70/ 69																		3	3			
68/ 67												.0	.0	.0				2	2			
66/ 65												.0	.0					5	5			
64/ 63											.0	.0						7	7			
62/ 61											.0	.0						16	16			
60/ 59											.0	.0						37	37			
58/ 57											.0	.0						98	98			
56/ 55											.0	.0						150	150		10	
54/ 53											.0	.0						319	319		67	
52/ 51											.0	.0						305	305		171	
50/ 49											.0	.0						512	512		271	
48/ 47											.0	.0						541	541		416	
46/ 45											.0	.0						656	656		537	
44/ 43											.0	.0						798	798		719	
42/ 41											.0	.0						739	739		879	
40/ 39											.0	.0						601	601		736	
38/ 37											.0	.0						478	478		683	
36/ 35											.0	.0						532	532		613	
34/ 33											.0	.0						465	465		658	
32/ 31											.0	.0						396	397		489	
30/ 29											.0	.0						322	322		506	
28/ 27											.0	.0						223	223		317	
26/ 25											.0	.0						131	131		196	
24/ 23											.0	.0						54	54		76	
22/ 21											.0	.0						26	26		44	
20/ 19											.0	.0						8	9		20	
18/ 17											.0	.0						3	3		8	
16/ 15											.0	.0						5	5		1	
14/ 13											.0	.0						2	2		5	
12/ 11											.0	.0						1	1		3	
10/ 9											.0	.0									16	
8/ 7											.0	.0									4	
6/ 5											.0	.0									1	
4/ 3											.0	.0									1	
Element (X)	Σ X <sup>2</sup>	Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X		
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						
								</														



## PSYCHROMETRIC SUMMARY

YEARS

MONTH  
B33

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
																		O.B./W.B.		Dry Bulb	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	0.B./W.B.	± 15	Wet Bulb	Dew Point
60/ 59																		1	1		
58/ 57						.1												2	2		
56/ 55		.6				.2												7	7	3	9
54/ 53	.5	.4	.4															11	11	9	9
52/ 51	.1	.9	.5	.4														16	16	3	4
50/ 49		2.0	1.2	.7														33	33	16	9
48/ 47	.2	2.6	1.5	.8														46	46	29	18
46/ 45	1.1	4.5	1.9	.7														69	69	42	30
44/ 43	.7	3.8	1.9	1.5	.6													72	72	67	36
42/ 41	.2	4.6	1.9	.2	.2													61	61	59	26
40/ 39	.7	4.3	3.9	.7	.2													83	83	76	63
38/ 37	.7	6.0	3.8	.7	.4													98	98	78	76
36/ 35	.9	7.3	4.0	.4	.1													108	108	108	77
34/ 33	.2	4.7	4.4	.1	.1													81	81	97	79
32/ 31	.1	7.0	3.4															89	89	93	98
30/ 29	.8	2.1	1.4															37	37	89	68
28/ 27	.9	.7	.4	.1														17	17	45	75
26/ 25	.1	.9																9	9	17	66
24/ 23	.1	.6																6	6	10	54
22/ 21																				5	24
20/ 19																					19
18/ 17																					8
16/ 15																					3
14/ 13																					2
12/ 11																					1
10/ 9																					1
TOTAL	7.4	53.3	38.7	6.5	1.7	.4												846	846	846	846

Element (X)	ΣX <sup>2</sup>	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							Total
						≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F			
Rel. Hum.	5567067	67929	80.3	1.551	846								
Dry Bulb	1310222	32828	38.8	6.561	846	15.7						84	
Wet Bulb	1150989	30631	36.4	6.473	846	25.7						84	
Dew Point	979920	27944	33.0	7.686	846	41.6						84	

## PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON A4 SPAIN/MACRID

9-70

YEARS

FEB  
MONTH

PAGE I

0050-0067  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJA AR SPAIN/MADRID  
STATION NAME

09-78  
YEARS

PAGE 1  
0600-0800  
HOURS (L.S.T.)

FEB  
MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb	Dew Point
56/ 55		.5																4	4	2	3
54/ 53		.2	.1	.1														4	4	3	3
52/ 51		1.1	.5															13	13	3	3
50/ 49	.1	2.7	.5		.1													29	29	23	13
48/ 47	.4	3.0	1.5		.1	.1												43	43	21	24
46/ 45	1.1	3.5	1.1	.2	.4													53	53	38	27
44/ 43	1.1	3.7	1.2	.7	.2													58	58	54	34
42/ 41	.5	4.3	1.1	.5														53	53	45	30
40/ 39	.5	6.9	3.4	.4														94	94	63	45
38/ 37	1.4	5.4	2.2	.2														79	79	98	78
36/ 35	.9	4.3	1.9	.1														61	61	76	71
34/ 33	1.5	4.6	2.6	.1														75	75	78	64
32/ 31	.6	7.8	2.5	.1	.2													95	95	63	74
30/ 29	.6	9.7	.3															70	70	97	68
28/ 27	1.4	4.1	.7															53	53	82	79
26/ 25	.5	3.4																33	33	44	66
24/ 23	.6	1.9																21	21	32	56
22/ 21	.2	.4																5	5	16	40
20/ 19	.2	.1																3	3	5	41
18/ 17																					19
16/ 15																					8
14/ 13																					1
12/ 11																					1
10/ 9																					1
TOTAL	11.6	64.5	20.2	2.5	1.1	.1												846	846	846	846
Mean No. of Hours with Temperature																					Total
Element (X)	Σ X <sup>2</sup>				Σ X		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature				Σ 80 F		Σ 93 F		Total
Rel. Hum.	5949689				70405		83.2		20.350		846		Σ 80 F				Σ 80 F		Σ 93 F		Total
Dry Bulb	1184776				31078		36.7		7.307		846		Σ 80 F				Σ 80 F		Σ 93 F		Total
Wet Bulb	1073696				29522		34.9		7.175		846		Σ 80 F				Σ 80 F		Σ 93 F		Total
Dew Point	922853				27055		32.0		3.259		846		Σ 80 F				Σ 80 F		Σ 93 F		Total



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# PSYCHROMETRIC SUMMARY

14011 STATION TURKEY AB SPAIN/MADRID YEARS 69-78  
PAGE 1 0900-1100 MONTH FEB  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb
60/ 59			.1			.2	.1		.1									4	4	
58/ 57		.4	.1	.4			.1											8	8	
56/ 55		.5	.1	.4	.2	.1	.1											12	12	5
54/ 53	.1	.6	1.1	1.2	.2	.1	.1	.1										29	29	7
52/ 51	.1	1.7	1.1	.9	.6	.1	.2											43	43	18
50/ 49		1.2	2.0	1.2	1.2	.5												56	56	20
48/ 47	.7	2.1	3.2	2.5	2.0	.4												92	92	49
46/ 45	.8	4.0	2.8	4.1	1.7	.1												115	115	70
44/ 43	.6	5.4	3.9	3.3	1.4	.1												108	108	82
42/ 41	.5	5.0	4.3	2.1	1.5	.2												115	115	
40/ 39	1.3	3.9	3.7	1.8	.6													95	95	133
38/ 37	.5	3.1	2.8	1.4	.4													69	69	105
36/ 35	.1	1.5	2.0	1.4	.1													44	44	86
34/ 33		1.3	2.0	.1														29	29	59
32/ 31		.3	.7	.1														14	14	49
30/ 29		.6	.2															7	7	35
28/ 27	.1	.4	.1															5	5	13
26/ 25		.1																1	1	3
24/ 23																				1
22/ 21																				19
20/ 19																				5
18/ 17																				1
16/ 15																				1
14/ 13																				
TOTAL	4.8	30.5	31.2	20.9	9.9	1.9	.5	.1	.1									846	846	846

Mean No. of Hours with Temperature

Element (X)	Zx'	Zx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	4714020	61886	73.2	4.875	846	≥ 0 F	≥ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1619787	36679	43.4	5.912	846		2.7				84
Wet Bulb	1356625	33531	39.6	5.718	846		10.0				84
Dew Point	1074183	29461	34.8	7.555	846		32.0				84

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURRETON AB SPAIN/MADRID YEARS 19-78 MONTH FEB  
PAGE 1 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point						
68/ 67						.1	.1	.2				.1						3	3								
66/ 65						.1	.1	.2										3	3								
64/ 63					.1	.1	.1	.2	.4	.2	.1							10	10								
62/ 61			.1	.6	.1	.6	.1	.1	.5	.1								19	19								
60/ 59			.1	.1	.4	.6	1.4	.1	.2	.2	.1							27	27								
58/ 57		.8		.7	1.9	1.1	1.2	.1	.4	.1								53	53	3							
56/ 55		.1	.6	1.1	1.8	2.0	.9	.5	.1									60	60	15							
54/ 53		.8	1.7	3.1	2.8	2.4	1.3	.6										107	107	9	11						
52/ 51		.8	1.8	2.4	3.8	3.3	1.5	.1										116	116	43	6						
50/ 49	.1	1.9	4.4	3.7	7.0	2.8	.7	.2										175	175	56	21						
48/ 47	.2	1.2	2.1	2.4	3.0	1.9	.4											94	94	117	34						
46/ 45	.2	1.8	.6	1.5	1.9	1.5	.1											67	67	110	45						
44/ 43	.4	2.0	.9	.7	2.2	.7												59	59	151	71						
42/ 41		1.1	.1	.2	1.2	.5												26	26	133	64						
40/ 39		.4	.4	.6	.6													20	20	98	64						
38/ 37			.1	.1	.1													2	2	34	85						
36/ 35	.2	.1	.1	.1														5	5	42	83						
34/ 33																				29	52						
32/ 31																				6	103						
30/ 29																					48						
28/ 27																					43						
26/ 25																					30						
24/ 23																					40						
22/ 21																					17						
20/ 19																					16						
18/ 17																					8						
16/ 15																					4						
14/ 13																					1						
TOTAL	1.2	10.9	3.2	17.5	27.0	17.7	6.2	2.5	1.1	.5	.2	.1						846	846	846	846						
Element (X)	ΣX'			ΣX			ΣX			No. Obs.			Mean No. of Hours with Temperature														
Rel. Hum.	3179459			49853			58.9			846									≥ 80 F			≥ 93 F			Total		
Dry Bulb	2186827			42759			50.6			846						.3									84		
Wet Bulb	1631702			36922			43.6			846						.6									84		
Dew Point	1130232			30180			35.7			846			30.8												84		

DATA PROCESSING CENTER  
USAF ETAC  
AIR WEATHER SERVICE/VAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURRETON AB SPAIN/MADRID YEARS 69-78 MONTH FEB

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31								
68/ 67							.1	.1			.2		.1					5	5						
66/ 65							.4	.2					.1					7	7						
64/ 63							.9	.4	.4	.1	.2	.1						19	19						
62/ 61							.7	1.2	.7	.2	.1							29	29						
60/ 59		.1	.5	.1	.1	.7	1.5	1.4	1.1	.5	.6	.2						57	57						
58/ 57		.8	.5	1.4	1.3	1.4	1.3	.6	.2									64	64	1					
56/ 55		.4	.6	2.2	2.2	3.0	2.2	1.2	.2									102	102	14					
54/ 53		.2	1.3	1.9	2.2	4.1	1.2	.5										97	97	18					
52/ 51		.5	1.7	1.4	4.0	2.8	.9	.1										97	97	40					
50/ 49		.8	1.5	2.8	3.7	3.5	.8	.1										114	114	74					
48/ 47		.1	1.9	2.5	2.2	2.5	2.0	.7	.1									102	102	109					
46/ 45		.4	.9	1.7	.9	2.0	1.1	.4										62	62	126					
44/ 43		.1	1.2	.6	1.3	.7	1.3	.4										47	47	162					
42/ 41		1.1	.2	.5	1.1	.2												26	26	121					
40/ 39				.1	.9													9	9	77					
38/ 37		.1	.1	.4														5	5	41					
36/ 35		.4																3	3	30					
34/ 33																		1	1	23					
32/ 31																				10					
30/ 29																									
28/ 27																									
26/ 25																									
24/ 23																									
22/ 21																									
20/ 19																									
18/ 17																									
16/ 15																				8					
14/ 13																				2					
12/ 11																				1					
TOTAL		8.4	11.1	15.5	21.5	21.4	11.5	5.6	2.0	1.1	.8	.1	.2					846	846	846					
Element (X)		Z X <sup>1</sup>	Z X	X	X	No. Obs.	Mean No. of Hours with Temperature											TOTAL							
Rel. Hum.		2350610	46876	55.4	17.312	846	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb		2300788	43846	51.8	5.794	846	.5						84												
Wet Bulb		1650838	37246	44.0	4.871	846	1.0						84												
Dew Point		1097552	29682	35.1	3.152	846	31.5						84												

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	s <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total
						≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	2350610	46876	55.4	17.312	846							
Dry Bulb	2300788	43846	51.8	5.794	846			.5				84
Wet Bulb	1650838	37246	44.0	4.871	846		1.0					84
Dew Point	1097552	29682	35.1	8.152	846		31.5					84

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/4AC

# PSYCHROMETRIC SUMMARY

STATION 14011 TURREJON AR SPAIN/ADRID YEARS 1978 MONTH FEB  
PAGE 1 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63							.1											1	1		
62/ 61						.1												1	1		
60/ 59		.5			.1	.1												2	15	1	
58/ 57					.9	.1			.1									15	26	6	1
56/ 55		1.3	.1	.1	.7	.5	.2	.1										26	50	11	10
54/ 53		.6	1.2	1.8	.7	1.1	.2	.4										50	65	12	8
52/ 51		.9	2.7	2.0	1.4	.1	.5											65	100	38	9
50/ 49		1.3	3.4	3.5	.7	.6	.2											100	111	62	26
48/ 47	.5	2.7	5.0	2.3	.9	1.1	.1											111	123	95	41
46/ 45	.4	4.1	4.6	3.4	1.4	.5												110	110	124	66
44/ 43	.4	3.2	4.4	3.9	.6	.4												85	85	124	53
42/ 41	.4	2.2	5.0	2.0	.7	.1												56	56	100	75
40/ 39		.7	3.4	2.0	.4	.1												40	40	96	64
38/ 37		1.3	2.1	.6	.7													26	26	74	104
36/ 35		.1	2.2	.6	.1													23	23	43	78
34/ 33	.1	.4	1.7	.6														9	9	27	87
32/ 31		.2	.2															2	2	22	49
30/ 29		.2																1	1	11	50
28/ 27	.1																				41
26/ 25																					25
24/ 23																					17
22/ 21																					9
20/ 19																					7
18/ 17																					5
16/ 15																					1
14/ 13																					846
TOTAL	1.4	19.9	26.6	23.4	11.7	4.6	1.5	.5	.1									846	846	846	846
	</																				

Element (X)	Z <sub>X</sub>	Z <sub>X</sub>	X	σ <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	4220443	58601	69.3	14.194	846	≥ 32 F	≥ 27 F	≥ 23 F	≥ 20 F	≥ 17 F	846
Dry Bulb	1775927	38451	45.5	5.789	846	1.2					84
Wet Bulb	1447950	34686	41.0	5.528	846	6.0					84
Dew Point	1100773	29979	35.4	7.422	846	28.9					84

## PSYCHROMETRIC SUMMARY

**MONTH**  
**FEB**

PAGE 1

2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
																		D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31				
64/ 63							.2										2		2		
62/ 61							.1										1		1		
58/ 57		.4			.1			.1	.1								6		6	4	
56/ 55		.5		.2	.1												7		7		
54/ 53		.7	.1	.6	.2												14	14	14	6	
52/ 51	.1	1.4	.9	.2	.2	.1		.1									27	27	27	6	
50/ 49	.1	1.3	1.9	.7	.5												38	38	38	23	
48/ 47	.1	2.7	2.6	1.2	.2	.2											60	60	60	29	
46/ 45	.5	4.1	3.2	3.0	.7	.1											98	98	98	56	
44/ 43	.8	4.3	4.0	2.0	.6	.1											100	100	100	75	
42/ 41	.5	5.8	4.4	2.8	1.3												125	125	102	70	
40/ 39	.1	3.2	5.3	1.1	.2	.1											85	85	95	52	
38/ 37	.5	4.5	3.4	.7	.1												78	78	78	96	
36/ 35		3.7	4.7	.6													76	76	106	81	
34/ 33	.2	3.1	3.0	.4													56	56	88	79	
32/ 31	.1	1.9	2.2	.7													42	42	66	78	
30/ 29		1.1	.5	.1													14	14	51	68	
28/ 27	.5	.7	.0														15	15	26	71	
26/ 25																			13	54	
24/ 23	.1	.1															2	2	3	45	
22/ 21																			1	24	
20/ 19																				12	
18/ 17																				7	
16/ 15																				3	
14/ 13																				4	
TOTAL	3,739.4	30.9	43.5	14.3	4.4	.7	.1	.4	.1	.1							846	846	846	846	
																				</	

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AB SPAIN/MADRID  
STATION NAME

69-78

YEARS

FEB  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb
68/ 67						.0	.0	.0	.0	.0	.0	.0	.0	.0				8	8	
66/ 65						.0	.1	.0	.0	.0	.0	.0	.0	.0				10	10	
64/ 63					.0	.0	.2	.1	.1	.0	.0	.0	.0	.0				32	32	
62/ 61			.0	.1	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0				50	50	
60/ 59		.0	.1	.0	.1	.3	.4	.1	.1	.1	.0							91	91	
58/ 57		.4	.1	.3	.5	.4	.3	.1	.1	.0								148	148	5
56/ 55	.1	.6	.2	.5	.6	.7	.4	.2	.0									225	225	50
54/ 53	.1	.4	.5	1.1	.8	1.0	.3	.2										316	316	68
52/ 51	.1	1.0	1.2	.9	1.3	.8	.4	.0										389	389	129
50/ 49	.1	1.6	2.0	1.6	1.9	.9	.2	.0										571	571	267
48/ 47	.3	2.4	2.5	1.5	1.1	.7	.1	.0										586	586	444
46/ 45	.7	3.4	2.2	1.8	1.0	.4	.1											644	644	575
44/ 43	.7	3.1	2.3	1.8	.8	.3	.0											611	611	763
42/ 41	.3	3.3	2.5	1.1	.8	.1												583	583	757
40/ 39	.4	3.0	2.9	.9	.4	.0												513	513	713
38/ 37	.5	3.0	2.2	.7	.2													445	445	627
36/ 35	.4	2.8	2.2	.4	.0													398	398	568
34/ 33	.5	2.4	2.0	.2	.0													352	352	516
32/ 31	.1	2.9	1.5	.1	.1													319	319	386
30/ 29	.3	2.1	.5	.0														200	200	393
28/ 27	.5	1.2	.3	.0														139	139	246
26/ 25	.3	.9																79	79	128
24/ 23	.1	.6																48	48	72
22/ 21	.0	.1																8	8	34
20/ 19	.0	.0																3	3	7
18/ 17																				
16/ 15																				
14/ 13																				
12/ 11																				
10/ 9																				
8/ 7																				
6/ 5																				
TOTAL	5.235.87	35.87	5.613.1	9.8	5.9	2.7	1.1	.4	.2	.1	.0	.0	.0	.0				6768	6768	6768

Element (X)	Mean No. of Hours with Temperature					Total
Rel. Hum.	≥ 31 F	≥ 30 F	≥ 27 F	≥ 23 F	≥ 19 F	Total
Dry Bulb			9.8	79.0		672
Wet Bulb			125.7			672
Dew Point			291.1			672

Mean No. of Hours with Temperature

Element (X)	ΣX'	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Σ 32 F	Σ 67 F	Σ 73 F	Σ 80 F	Σ 93 F	Total
Rel. Hum.	37320153	489341	72.3	16.970	6768						
Dry Bulb	13056931	291389	43.1	8.320	6768	79.0	.8				672
Wet Bulb	10669372	264640	39.1	6.893	6768	125.7					672
Dew Point	6245591	329969	34.0	7.973	6768	291.1					672



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURKEY AP SPAIN/MADRID MAR-77  
MAR MONTH  
PAGE 1 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31								
56/ 55			.1	.1	.1	.1	.2											3	7	1					
54/ 53		.2	.2	.4	.4	.4	.3											23	77	4	6				
52/ 51		.2	1.6	.4	.1	.1												77	93	13	23				
50/ 49		2.6	4.4	.5	.4	.3												93	85	44	32				
48/ 47	.1	3.4	4.6	1.2	.6													85	80	80	57				
46/ 45	.2	4.3	2.6	1.4	.6													101	101	92	53				
44/ 43	.3	6.0	2.0	2.2	.3													96	96	109	99				
42/ 41	.2	5.9	2.7	1.4	.1													89	89	95	96				
40/ 39	.3	3.3	3.3	2.5	.1													94	94	91	66				
38/ 37	.4	3.8	3.9	1.6	.2													84	84	88	60				
36/ 35	.1	3.4	4.5	.9	.1													62	62	101	103				
34/ 33	.1	1.3	4.8	.3	.1													68	68	76	75				
32/ 31	.4	2.6	3.9	.3		.1												28	28	68	66				
30/ 29	.3	1.6	.5	.3														13	13	37	70				
28/ 27		.5	.6	.1	.1													6	6	13	63				
26/ 25		.5		.1														1	1	15	19				
24/ 23		.1																		2	12				
22/ 21																					12				
20/ 19																					4				
18/ 17																					7				
16/ 15																					2				
14/ 13																					1				
12/ 11																					1				
10/ 9																					1				
8/ 7																					3				
0/ -1																					930				
TOTAL	2.640	139.9	13.5	3.0	.6	.2												930	930	930	930				

Element (X)	Zx'	Zx	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					± 80 F	± 93 F	Total
Ref. Hum.	5671114	70416	75.7	2.253	930	≤ 32 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total	
Dry Bulb	1573369	37805	40.7	6.275	930	11.6						93	
Wet Bulb	1351677	34961	37.6	6.217	930	21.2						93	
Dew Point	1088530	30960	33.3	7.892	930	43.8						93	

Mean No. of Hours with Temperature

Element (X)	Z X <sup>2</sup>	Z X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					± 80 F	± 93 F	Total
Rel. Hum.	5471114	70416	75.7	12.253	930	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F			Total
Dry Bulb	1573369	37805	40.7	6.275	930	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	11.6		93
Wet Bulb	1351677	34981	37.6	6.217	930	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	21.2		93
Dew Point	1088530	30960	33.3	7.892	930	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	3	43.8	93



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURKEY AR SPAIN/MADRID

68-77

YEARS

MAR  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Wet Bulb Dew Point
56/ 55							.1											1	
54/ 53			.1			.1												2	
52/ 51		.2	.6	.1	.2	.1												8	1
50/ 49		2.2	1.5	.3	.1													38	8
48/ 47		2.0	2.2	.3	.1													50	29
46/ 45	.3	6.2	1.2	.5	.1													78	53
44/ 43	.2	5.5	1.6	.8	.3													78	45
42/ 41	.2	6.2	3.3	1.2	.4													106	88
40/ 39	.3	5.9	4.1	1.3														108	70
38/ 37	.4	4.9	2.4	2.3														93	92
36/ 35	.4	4.9	3.0	.3	.1													82	104
34/ 33	.1	4.2	3.1	.2	.2													73	73
32/ 31	.1	4.9	3.1	.1														77	91
30/ 29	.2	4.1	1.0															49	88
28/ 27	.6	3.0	.6	.2														43	71
26/ 25	.3	1.5	.1	.3														21	30
24/ 23	.1	1.4	.3	.1														18	18
22/ 21	.1	.3	.1															5	16
20/ 19																			5
18/ 17																			2
16/ 15																			4
14/ 13																			6
12/ 11																			6
10/ 9																			2
8/ 7																			2
0/ -1																			3
TOTAL	3.558	428.5	7.7	1.5	.2	.1												930	930

Element (X)	ΣX'	ΣX	X̄	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	5908314	73382	78.9	930	≥ 32 F	≥ 30 F	≥ 27 F	≥ 23 F	≥ 19 F	≥ 15 F	≥ 11 F	
Dry Bulb	1391490	35424	38.1	930	21.3							
Wet Bulb	1221762	33140	35.6	930	32.1							
Dew Point	1006808	29672	31.9	930	47.4	.3						

Mean No. of Hours with Temperature

Element (X)	Zx	X	No. Obs.	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Rel. Hum.	5708314	73382	930							
Dry Bulb	1391490	35424	930		21.3					93
Wet Bulb	1221762	33140	930		32.1					93
Dew Point	1006808	29672	930	.3	47.4					93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS PAGE 1 0600-0800 MONTH MAR HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31				
56/ 55				.1														1	1		
52/ 51		.4	1.0	.1	.2													16	16		
50/ 49		3.3	1.9	.4	.4													57	57	12	5
48/ 47	.1	3.7	3.0	.3	.3	.1												70	70	43	16
46/ 45	.3	4.2	1.5	1.0	.2													67	67	55	47
44/ 43	.6	5.4	2.0	.6	.3													84	84	82	46
42/ 41	.4	4.8	2.3	.3	.1													74	74	80	44
40/ 39	.1	4.1	3.8	2.2	.2													96	96	74	64
38/ 37	.3	5.8	3.1	1.7	.1													103	103	88	86
36/ 35	.5	4.9	4.1	.3														92	92	103	73
34/ 33	.5	3.1	3.5	.2														69	69	99	92
32/ 31	.5	4.8	2.9	.4														81	81	85	82
30/ 29	.2	3.3	1.0															42	42	81	62
28/ 27	.8	2.0	.6	.1														33	33	53	78
26/ 25	.4	1.7	.3															23	23	38	76
24/ 23	.2	1.0	.1	.1														13	13	18	76
22/ 21	.1	.4	.1															6	6	9	25
20/ 19		.2																2	2	7	25
18/ 17			.1															1	1	2	13
16/ 15																					4
14/ 13																				1	5
12/ 11																					5
10/ 9																					2
8/ 7																					1
4/ 3																					1
2/ 1																					1
0/ -1																					1
TOTAL	5.353	331.4	8.0	1.9	.1													930	930	930	930
Element (X)	Σ X <sup>2</sup>	Σ X	X̄	X̄ <sup>2</sup>	Mean No. of Hours with Temperature												≥ 80 F	≥ 93 F	Total		
Rel. Hum.	5961846	73688	79.2	11.517																	
Dry Bulb	1422104	35792	38.5	6.930															93		
Wet Bulb	1250030	33512	36.0	6.759															93		
Dew Point	1036250	30122	32.4	3.078															93		



## PSYCHROMETRIC SUMMARY

STATION NAME
TURREJON AB SPAIN/MADRID

68-77

STATION NAME

YEARS

MAR  
MONTH

PAGE 2

0900-1100  
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A) JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID

68-77

YEARS

MAR  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL				
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
80/ 79									.2		.1	.2	.1					1	1				
74/ 73									.1		.1	.1	.1					5	5				
72/ 71								.1	.1		.4	.1						3	3				
70/ 69								.1	.1		.2							10	10				
68/ 67								.1	.1		.2							15	15				
66/ 65								.1	.1		.2							24	24				
64/ 63				.4	.1	1.3	1.0	.5	.3	.1								35	35				
62/ 61					1.6	1.6	1.0	1.6	.9	.4								66	66				
60/ 59			.1	.2	1.3	1.7	1.2	.8	.2	.1	.1							53	53		4		
58/ 57		.1	.3	.6	2.5	2.3	1.7	1.3	.1	.3								92	92		14		
56/ 55		.3	.6	.9	3.4	1.3	2.9	1.2	.4	.2								104	104		14		
54/ 53		.3	.6	.9	2.7	2.6	3.0	1.0	.3									106	106		51		
52/ 51		.3	.6	.9	2.2	2.7	3.1	1.6	.3	.1								101	101		69		
50/ 49		.4	.1	.5	3.4	4.2	2.4	.4	.2	.2								144	144		93		
48/ 47		.4	.2	.5	1.7	2.3	.5	.2	.2									84	84		42		
46/ 45		.4	.2	.5	.8	1.4	.2	.1	.1									43	43		47		
44/ 43		.3	.3	.2	.5	.1	.4											20	20		57		
42/ 41		.2	.5	.2	.1													10	10		69		
40/ 39		.1	.2	.1														4	4		90		
38/ 37		.1	.3															4	4		70		
36/ 35		.3	.1															4	4		65		
34/ 33																					62		
32/ 31	.1	.1																2	2		109		
30/ 29																				6	67		
28/ 27																				3			
26/ 25																					66		
24/ 23																					42		
22/ 21																					49		
20/ 19																					13		
18/ 17																					12		
16/ 15																					6		
14/ 13																					3		
12/ 11																					7		
10/ 9																					2		
																					3		
Element (X)	Σ X <sup>2</sup>	Σ X				X				No. Obs.				Mean No. of Hours with Temperature				≥ 0 F	≥ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

14011	TORREJON AB SPAIN/MADRID	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

MAR  
MONTH

PAGE 1

1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)										TOTAL		TOTAL		TOTAL									
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
80/ 79													.1					1	1					
78/ 77												.1	.1					2	2					
76/ 75											.1	.1	.3					4	4					
74/ 73								.1	.1	.1	.4	.3	.2					7	7					
72/ 71								.2	.3	.1	.1	.1	.1					12	12					
70/ 69								.3	.3	.2	.5	.1						14	14					
68/ 67							.4	1.0	.1	.5	.3							13	13					
66/ 65						.8	.9	1.0	.1	.3	.1							33	33					
64/ 63						.5	1.2	1.2	1.2	.4	.1							40	40					
62/ 61						1.6	1.2	1.8	1.3	.2	.1							65	65					
60/ 59			.1	.2	1.7	2.5	2.5	2.5	.4	.1	.2							95	95	1				
58/ 57			.1	.4	2.2	1.5	2.4	2.0	1.3	.1	.1							93	93	7				
56/ 55			1.1	1.3	1.3	1.7	3.0	1.9	.8	.2	.1							105	105	26				
54/ 53		.2	.2	1.4	2.6	3.3	2.7	1.0	.1	.2	.1							110	110	47				
52/ 51			.5	1.2	1.4	1.4	1.5	1.0	.3	.1								69	69	79	1			
50/ 49		.3	2.3	1.8	2.5	2.8	1.7	1.5	.1									121	121	89	19			
48/ 47		.1	.8	1.3	1.0	2.3	.4	.1	.2									55	55	115	31			
46/ 45		.8	.4	.8	1.0	.6	.1	.2	.2									39	39	128	48			
44/ 43		.8	.6	.3	.6	.1												23	23	133	57			
42/ 41		.1	.8	.2	.2	.1												13	13	120	95			
40/ 39		.3	.3															6	6	78	71			
38/ 37		.2	.1															3	3	65	60			
36/ 35		.2	.1															3	3	25	76			
34/ 33		.4																4	4	9	69			
32/ 31																				8	77			
30/ 29																					73			
28/ 27																					71			
26/ 25																					57			
24/ 23																					54			
22/ 21																					19			
20/ 19																					22			
18/ 17																					8			
16/ 15																					7			
14/ 13																					4			
Element (X)	Σ X										Σ X <sup>2</sup>		Mean No. of Hours with Temperature										Σ Total	
Rel. Hum.													≥ 0 F   ≥ 32 F   ≥ 67 F   ≥ 73 F   ≥ 80 F   ≥ 93 F										Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC

FORM 0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

MAR  
MONTH

PAGE 2 1500-2700  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID 68-77 YEARS PAGE 1 1800-2000 MONTH MAR  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
74/ 73											.1		.1					2	2		
70/ 69											.1		.1					3	3		
68/ 67									.2	.1	.3							6	6		
66/ 65				.1				.2	.1	.3								8	8		
64/ 63				.1	.3			.2	.1		.1							12	12		
62/ 61				.1	.4	.4		1.0	.2		.1							26	26		
60/ 59				.6	.3	.2	.3	.3	.3	.3								20	20		1
58/ 57			.4	1.2	1.2	1.4	.8	.4	.2	.2								52	52		1
56/ 55			1.3	1.3	1.8	1.6	1.1	.1	.1									68	68		5
54/ 53		.6	1.4	3.1	1.9	1.3	.8	.3										88	88		34
52/ 51		.2	1.0	2.2	1.2	1.7	.5	.1										64	64		40
50/ 49		1.6	5.9	2.8	2.9	2.9	.6											156	157		66
48/ 47	.1	1.0	3.3	2.4	3.0	2.2		.2										113	113		38
46/ 45	.1	1.6	2.5	2.5	3.1	1.2	.1											103	103		49
44/ 43	.1	1.5	1.5	1.9	1.7	.3	.4	.1										71	71		64
42/ 41	.1	.5	1.8	1.7	1.1	.3	.1											53	53		75
40/ 39		1.1	1.0	1.4	.6	.1												40	40		95
38/ 37		.9	.8	.5	.2	.2												24	24		79
36/ 35		.3	.4	.3		.1												11	11		67
34/ 33		.6	.3															9	9		78
32/ 31																		29	29		107
30/ 29																		3	3		54
28/ 27																		3	3		51
26/ 25																					54
24/ 23																					39
22/ 21																					5
20/ 19																					13
18/ 17																					10
16/ 15																					3
12/ 11																					2
10/ 9																					1
8/ 7																					6
6/ 5																					1
Element (X)	Σ X'				Σ X				X̄				No. Obs.				Mean No. of Hours with Temperature				
Rel. Hum.													≤ 0 F				≤ 32 F				
Dry Bulb													≥ 73 F				≥ 80 F				
Wet Bulb																	≥ 93 F				
Dew Point																	Total				

## PSYCHROMETRIC SUMMARY

58-77

**YEARS**

MAR  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

MAR  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
62/ 61									.1	.1								2	2			
58/ 57									.2									4	4			
56/ 55			.3	.6	.3	.2	.4											18	18			
54/ 53		.4	1.1	2.0	.4	.6	.3											46	46	1		
52/ 51		.2	3.2	1.1	.6	.5												53	53	11		
50/ 49	.1	1.8	3.8	2.0	1.3	.2												86	86	23	11	
48/ 47	.1	2.4	4.7	1.9	1.7	.1												102	102	86	15	
46/ 45	.1	4.0	3.3	1.5	1.1	.1												94	94	81	54	
44/ 43	.3	4.8	3.2	2.6	1.4	.1												116	116	122	53	
42/ 41	.3	4.2	5.8	3.3	1.0	.3												139	139	123	90	
40/ 39	.2	1.2	3.1	3.4	1.0	.1												84	84	89	104	
38/ 37		1.8	3.6	1.6	.2	.1												68	68	100	88	
36/ 35	.1	1.3	3.3	1.4	.1													58	58	90	54	
34/ 33	.2	.5	1.7	.8	.3	.1												34	34	83	84	
32/ 31	.1	.5	1.1		.1	.1												.1	18	60	77	
30/ 29		.2	.2	.1														5	5	34	66	
28/ 27		.1	.1															2	2	13	70	
26/ 25																				9	60	
24/ 23																				2	48	
22/ 21																					18	
20/ 19																					8	
18/ 17																					14	
16/ 15																					5	
14/ 13																					1	
12/ 11																					2	
10/ 9																					3	
8/ 7																					1	
6/ 5																					1	
4/ 3																					1	
2/ 1																					1	
TOTAL	1.6	23.6	38.6	22.6	9.7	2.7	.8	.2	.1	.1								929	929	929	929	

Element (X)	Zx'	Zx	X	Sx	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4789185	63465	70.5	3.771	929	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1806906	40594	43.7	5.972	929		2.5					93
Wet Bulb	1487545	36783	39.6	5.794	929		11.8					93
Dew Point	1145847	31799	34.2	7.864	929		37.6					93

Mean No. of Hours with Temperature

No. Obs.

%

X

Σ X

Σ X<sup>2</sup>

Element (X)

Rel. Hum. 4789185 65465 70.5 3.771 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929

Dry Bulb 1806906 40594 43.7 5.972 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929

Wet Bulb 1487545 36783 39.6 5.794 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929

Dew Point 1145847 31799 34.2 7.864 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID 48-77

MAR  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	± 31	D.B./W.B.	Wet Bulb	Dew Point
80/ 79													.0					2	2	
78/ 77												.0	.0					2	2	
76/ 75									.0	.0	.0	.0	.0					4	4	
74/ 73								.0	.0	.0	.0	.0	.0					14	14	
72/ 71								.0	.0	.0	.0	.0	.0					15	15	
70/ 69								.0	.0	.0	.0	.0	.0					27	27	
68/ 67				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					34	34	
66/ 65				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					67	67	
64/ 63				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					90	90	
62/ 61				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					173	173	
60/ 59			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					183	183	6
58/ 57		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					273	273	22
56/ 55		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					359	359	48
54/ 53		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					430	430	152
52/ 51		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					405	405	235
50/ 49	.0	1.7	3.3	1.5	1.8	1.5	.7	.2	.0	.0	.0	.0	.0					801	802	354
48/ 47	.1	1.9	3.1	1.4	1.3	1.0	.1	.1	.1	.0	.0	.0	.0					671	671	644
46/ 45	.1	3.0	1.9	1.6	1.3	.6	.1	.0	.1	.0	.0	.0	.0					641	641	734
44/ 43	.2	3.3	1.7	1.4	1.1	.1	.1	.0	.0	.0	.0	.0	.0					594	594	902
42/ 41	.2	3.0	2.6	1.3	.6	.2	.1	.0	.0	.0	.0	.0	.0					591	591	849
40/ 39	.1	2.1	2.2	1.5	.3	.1	.1	.0	.0	.0	.0	.0	.0					469	469	710
38/ 37	.2	2.2	1.9	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0					416	416	698
36/ 35	.2	2.0	2.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0					350	350	568
34/ 33	.1	1.3	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0					265	265	474
32/ 31	.2	1.6	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0					249	249	379
30/ 29	.1	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0					126	126	292
28/ 27	.2	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0					91	91	182
26/ 25	.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0					50	50	93
24/ 23	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					32	32	54
22/ 21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					11	11	26
20/ 19		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					2	2	14
18/ 17			.0	.0														1	1	4
16/ 15																				31
14/ 13																				1
Element (X)	Mean No. of Hours with Temperature																Total			
Rel. Hum.																				
Dry Bulb																				
Wet Bulb																				
Dew Point																				

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION: TORREJON AB SPAIN/MADRID YEARS: 68-77 MONTH: MAR

PAGE 2 ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL		D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31			
12/ 11																				21
10/ 9																				17
8/ 7																				16
6/ 5																				3
4/ 3																				4
2/ 1																				9
0/ -1																				12
-2/ -3																				2
TOTAL	1.825	5.25	21.4	712.0	8.8	5.7	3.4	1.6	.7	.4	.1	.1	.1					7438	7439	7438

Mean No. of Hours with Temperature

Element (X)	Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Total
	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	
Rel. Hum.	34739	2204	489604	65.8	8.376	7438															744
Dry Bulb	16246	325	341049	45.8	9.060	7439															744
Wet Bulb	12517	276	300762	40.4	6.919	7438															744
Dew Point	9027	510	251694	33.8	8.285	7438															744



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/MADRID YEARS 68-77 MONTH APR

PAGE 1 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
62/ 61					.2		.1											3	3			
60/ 59					.1													3	3			
58/ 57		.5	.7	.4	.9	.4												23	23			
56/ 55			1.0	.7	1.0	.4												25	25		.7	
54/ 53		1.1	1.7	2.0	1.5													51	51		.4	
52/ 51		2.1	3.2	1.6	.4	.1												60	60		.8	
50/ 49		2.9	7.3	2.8	1.8	.9												129	129		38	
48/ 47		2.2	5.5	2.0	1.5	.1												92	92		42	
46/ 45	.1	3.4	4.0	1.3	2.2													91	91		43	
44/ 43	.2	3.9	3.5	2.7	1.3													96	96		65	
42/ 41	.1	4.9	3.5	2.0	.4													89	89		77	
40/ 39		1.7	3.9	1.7	.6													65	65		84	
38/ 37		1.6	1.5	.7														31	31		96	
36/ 35		.7	2.1	.4														26	26		82	
34/ 33		.6	1.2	.2														17	17		42	
32/ 31		.4	.7															9	9		76	
30/ 29	.1	.2	.1															4	4		55	
28/ 27		.5																4	4		42	
26/ 25		.1																1	1		28	
24/ 23																					18	
22/ 21																					11	
20/ 19																					8	
TOTAL	.626	.940	.018	.711	.8	1.8	.1											819	819	819	819	
													</									

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	S <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature							Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F		Total	
Rel. Hum.	4459347	59621	72.8	12.066	819									
Dry Bulb	1739531	37407	45.7	6.156	819		2.0							90
Wet Bulb	1457088	34208	41.8	5.881	819		3.7							90
Dew Point	1171923	30405	37.1	7.263	819		26.2							90



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14011 STATION

TORREJON AB SPAIN/MADRID

6877

STATION NAME

YEARS

APR

MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31			
60/ 59							0.1											1	1	
58/ 57							0.1											4	4	
56/ 55	0.2	0.5	0.8	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0	20	20	2
54/ 53		0.6	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	24	24	4
52/ 51		2.0	2.9	3.8	4.7	5.6	6.5	7.4	8.3	9.2	10.1	11.0	11.9	12.8	13.7	14.6	15.5	50	50	19
50/ 49		2.6	3.2	3.8	4.4	5.0	5.6	6.2	6.8	7.4	8.0	8.6	9.2	9.8	10.4	11.0	11.6	58	58	37
48/ 47		2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	76	76	62
46/ 45		5.8	6.4	7.0	7.6	8.2	8.8	9.4	10.0	10.6	11.2	11.8	12.4	13.0	13.6	14.2	14.8	83	83	66
44/ 43		5.8	6.4	7.0	7.6	8.2	8.8	9.4	10.0	10.6	11.2	11.8	12.4	13.0	13.6	14.2	14.8	86	86	96
42/ 41	0.1	6.1	6.7	7.3	7.9	8.5	9.1	9.7	10.3	10.9	11.5	12.1	12.7	13.3	13.9	14.5	15.1	125	125	91
40/ 39	0.1	4.6	5.2	5.8	6.4	7.0	7.6	8.2	8.8	9.4	10.0	10.6	11.2	11.8	12.4	13.0	13.6	97	97	75
38/ 37	0.1	3.1	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	64	64	108
36/ 35	0.1	2.6	2.9	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	49	49	86
34/ 33	0.2	2.5	2.8	3.1	3.5	3.9	4.3	4.7	5.1	5.5	5.9	6.3	6.7	7.1	7.5	7.9	8.3	46	46	71
32/ 31		1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	15	15	45
30/ 29		1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	17	17	36
28/ 27	0.2	0.5	0.9	1.3	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.7	6.1	6.5	7	7	20
26/ 25	0.1	0.7	1.1	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.7	5.1	5.5	5.9	6.3	6.7	7	7	9
24/ 23		0.2	0.6	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	2	2	4
22/ 21		0.2	0.6	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	2	2	1
20/ 19																				1
18/ 17																				3
TOTAL	1.3	43.2	40.9	10.4	3.5	0.5	0.1											833	833	833

Element (X)	Σ X <sup>2</sup>	Σ X	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature							Total	
Rel. Hum.	5104753	64605	77.6	10.640	833	≤ 6	≥ 73 F	≥ 80 F	≥ 93 F					
Dry Bulb	1540032	33396	42.5	6.576	833		5.4					90		
Wet Bulb	1333505	32913	39.5	6.304	833		12.5					90		
Dew Point	1110200	29794	35.8	7.318	833		29.4					90		

Mean No. of Hours with Temperature

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	σ <sub>x</sub>	No. Obs.	Σ U	Σ 32 F	Σ 67 F	Σ 73 F	Σ 80 F	Σ 93 F	Total
Rel. Hum.	5104753	64605	77.6	10.6	833							
Dry Bulb	1540032	35396	42.5	6.5	833		5.4					90
Wet Bulb	1333505	32913	39.5	6.3	833		12.5					90
Dew Point	1110200	29794	35.8	7.3	833		29.4					90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

APR  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64 / 63				.1	.1	.2	.1											1	1		
62 / 61			.2	.1	.1	.2	.1											6	6		
60 / 59		.1	.3	.2	.1	.2	.1											6	6	5	
58 / 57		.1	.6	.6	.1	.1	.1											13	13	7	2
56 / 55	.1	.9	2.1	.7	.6	.2	.1											42	42	25	9
54 / 53		1.3	1.6	1.7	.6	.4	.1											50	50		
52 / 51		1.9	2.3	1.2	.7	.1	.1											56	56	37	12
50 / 49		3.3	6.2	1.9	1.4	.4	.1											121	121	52	54
48 / 47		3.6	6.2	1.8	1.7	.3												122	122	68	38
46 / 45	.1	5.2	2.8	1.3	1.4													98	98	113	57
44 / 43	.1	3.4	2.7	1.1	1.1													76	76	125	68
42 / 41	.2	3.6	4.0	1.6	.6													89	89	87	85
40 / 39	.1	2.9	3.3	1.8	.2													75	75	93	88
38 / 37		2.1	2.2	.7														45	45	91	91
36 / 35	.2	1.4	2.1	.4														38	38	66	86
34 / 33		1.4	1.9	.2														32	32	53	57
32 / 31		.7	.8															13	13	41	64
30 / 29	.1	.2	.2															5	5	17	57
28 / 27		.9																8	8	9	50
26 / 25		.2																2	2	8	42
24 / 23																					
22 / 21		.1																1	1	1	21
20 / 19																					2
18 / 17																					4
TOTAL	1.033	5.9	6.6	15.4	8.6	1.8	.2											899	899	899	899
Element (X)	Σ X <sup>2</sup>	Σ X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature															
Rel. Hum.	5172439	67339	74.91	1.960	.899	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	1874958	40614	45.2	6.686	.899		2.9					90									
Wet Bulb	1594170	37422	41.6	6.370	.899		7.7					90									
Dew Point	1308850	33610	37.4	7.632	.899		25.2					90									

Mean No. of Hours with Temperature

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	5172439	67339	74.9	1.960	899	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 93 F	Total
Dry Bulb	1874958	40614	45.2	6.686	899		2.9				90
Wet Bulb	1594170	37422	41.6	6.370	899		7.7				90
Dew Point	1308850	33610	37.4	7.632	899		25.2				90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14011 STATION

TORREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

APR  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
74/ 73							.1	.2										1	1			
72/ 71							.2	.1										3	3			
70/ 69									.1		.1							6	6			
68/ 67							.7	.3			.2							12	12			
66/ 65			.1	.1	.4	.1	.6	.3			.1							31	31			
64/ 63				.8	.7	.4	.4	.2			.3							44	44			
62/ 61			.2	1.3	.9	1.3	1.2	.4			.1							49	49			
60/ 59		.1	.3	2.2	2.1	2.1	1.3	.8										81	81	2	8	
58/ 57		.1	1.6	1.2	3.1	3.0	1.2											92	92	29	1	
56/ 55		.1	1.9	1.9	4.1	2.8	1.0											106	106	59	6	
54/ 53		.1	1.6	5.2	2.9	4.1	1.2	.4										140	140	46	16	
52/ 51		.8	1.7	2.2	2.0	1.7	.2											77	77	87	28	
50/ 49		.2	3.8	2.2	2.3	1.9	.9	.2										104	104	107	71	
48/ 47		1.0	1.9	1.2	1.7	1.8	.2											70	70	157	43	
46/ 45		.6	1.3	.2	1.1	.7	.1											36	36	138	52	
44/ 43		.4	.3	.9	1.1	.2												27	27	103	90	
42/ 41		.6	.3	.1	.4													13	13	61	131	
40/ 39			.2	.2	.3													7	7	50	105	
38/ 37			.1															1	1	34	68	
36/ 35																				16	61	
34/ 33																				5	58	
32/ 31																				4	36	
30/ 29																					42	27
28/ 27																					28	28
26/ 25																					21	21
24/ 23																					9	9
22/ 21																					6	6
20/ 19																					1	1
16/ 15																					900	900
TOTAL		4.0	15.2	20.0	24.3	22.3	9.4	3.2	.6	.7	.2							900	900	900		

Element (X)	Z X <sup>2</sup>	Z X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3243599	52543	58.4	13.995	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2697001	48961	54.4	6.101	900							90
Wet Bulb	2013521	42291	47.0	5.405	900							90
Dew Point	1447992	35428	39.4	7.706	900							90

Mean No. of Hours with Temperature

Element (X)	Z X <sup>2</sup>	Z X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	3243599	52543	58.4	13.995	900	≥ 0 F	≥ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2697001	48961	54.4	6.101	900			2.2			90
Wet Bulb	2013521	42291	47.0	5.405	900			.4			90
Dew Point	1447992	35428	39.4	7.706	900		17.0				90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/MADRID 68-77 YEARS MONTH APR  
PAGE 1 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81										.1	.1	.3	.1					2	2		
80/ 79											.2	.3	.1					4	4		
78/ 77								.1	.1	.4	.4	.6						8	8		
76/ 75								.2	.2	.3	.6	.2						17	17		
74/ 73								.3	.3	.4	.3							18	18		
72/ 71						.2	.2	.1	.4	.4	.3							29	29		
70/ 69					.3	.1	.3	.3	.6	.9	.3							36	36		
68/ 67					.2	.1	1.1	1.2	.7	.9	.1							55	55		
66/ 65				.3	.7	1.3	1.6	2.0	1.0	.6								67	67		
64/ 63		.1	.1	.6	.8	1.8	3.3	1.9	1.4									90	90	3	
62/ 61		.1	.1	.4	1.1	2.4	2.3	2.6	1.6									96	96	13	
60/ 59		.2	.2	.7	2.1	2.2	3.0	1.4	.1									90	90	33	
58/ 57		.2	.7	1.0	2.9	2.8	2.0	2.0	.1	.1								106	106	55	2
56/ 55		.4	.6	.9	3.1	1.7	2.2	.6	.3									88	88	64	1
54/ 53			.4	1.1	2.0	2.1	.9	1.2	.1									71	71	94	8
52/ 51		.7	1.1	.3	1.6	.7	.6	.2										46	46	125	25
50/ 49		.2	.8	.8	.8	1.1	1.0	.2										44	44	122	33
48/ 47		.1	.7	.3	.2	.4												16	16	148	55
46/ 45		.1	.6	.1	.2	.1												8	8	94	54
44/ 43				.2	.3	.1												6	6	64	60
42/ 41			.1		.1													2	2	90	90
40/ 39																				38	98
38/ 37																				28	79
36/ 35																				12	91
34/ 33																				5	80
32/ 31																				1	57
30/ 29																					55
28/ 27																					41
26/ 25																					20
24/ 23																					12
22/ 21																					18
20/ 19																					11
18/ 17																					5
																					4
Element (X)	ΣX <sup>2</sup>	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature														Total	
Rel. Hum.						≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F										Total
Dry Bulb																					
Wet Bulb																					
Dew Point																					

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

STATION  
1401

**TORREUN AB SPAIN/MADRID**

**69-77**

STATION NAME

YEARS

**APR**  
**MONTH**

PAGE 2      1200-1400  
HOURS (L.S. T.)

**PAGE 2**

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 14011 TORREJON AB SPAIN/MADRID 68-77 YEARS MONTH APR  
PAGE 1 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
84/ 83												.1	.1	.1				1	1		
82/ 81											.1	.1	.1	.1				4	4		
80/ 79									.1		.4	.3	.3	.2				13	13		
78/ 77									.1		.2	.4	.6	.1				13	13		
76/ 75									.1	.2	.3	.9	.1					19	19		
74/ 73									.3	.9	.6	.2	.1					25	25		
72/ 71						.2	.6	.4	.6	1.1	.4	.2						29	29		
70/ 69						.6	.8	.8	.8	1.8	1.3	.9						57	57		
68/ 67						1.1	.9	.9	1.2	1.7	1.6	.3						62	62		
66/ 65						1.1	.8	.8	2.6	1.0	.9	.1						61	61		
64/ 63					.1	.4	.6	1.7	2.3	.9	.8	.1						100	100		4
62/ 61			.1	.1	.6	1.7	2.1	3.4	1.7	.8	.1							96	96		8
60/ 59	.1	.1	.6	.7	1.7	2.0	1.8	2.0	1.0	.3								91	91		1
58/ 57	.1	.4	.4	1.2	1.4	2.9	1.0	1.0	.6									77	77		2
56/ 55	.1	.3	.7	.7	2.1	3.1	.9	.3	1.0									77	77		3
54/ 53	.4	.6	.6	1.2	.8	1.3	1.6	1.4	.2									68	68		22
52/ 51	.7	1.1	1.1	.7	.6	.3	.3	.1										34	34		14
50/ 49	.6	1.0	1.0	.8	.6	.7	.2	.3										37	37		49
48/ 47	.1	.9	.9	.6	.3	.2	.1											20	20		53
46/ 45	.3	.2	.2	.1	.1	.1	.1											8	8		62
44/ 43	.2					.1												3	3		63
42/ 41			.1	.1	.1													3	3		109
40/ 39				.2														2	2		86
38/ 37																					100
36/ 35																					5
34/ 33																					2
32/ 31																					45
30/ 29																					43
28/ 27																					28
26/ 25																					28
24/ 23																					22
22/ 21																					9
20/ 19																					12
18/ 17																					4
Element (X)	Zx <sup>2</sup>	Zx				X				σ <sub>x</sub>				No. Obs.				Mean No. of Hours with Temperature			
Rel. Hum.														≥ 67 F				≥ 80 F			
Dry Bulb														≥ 73 F				≥ 93 F			
Wet Bulb																					
Dew Point																					
Total																					

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

JUL 64

USAF/ETAC



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAG

## PSYCHROMETRIC SUMMARY

140.11 STATION

TORREJON A0 SPAIN/MADRID  
STATION NAME

68-77

STATION NAME

YEARS

**APR**  
**MONTH**

PAGE 2

1500-1700  
HOURS (P. S. T.)

[illegible]



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID STATION NAME YEARS 68-77 MONTH APR 1800-2000 HOURS (L. S. T.)

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
82/ 81											.1							1	1				
80/ 79											.1							1	1				
78/ 77											.2	.1						2	2				
76/ 75											.2	.1	.1					6	6				
74/ 73											.2	.1						5	5				
72/ 71					.1	.1	.2	.4	.1	.4	.3							13	13				
70/ 69					.3	.3	.3	.3	.3	.3	.1							15	15				
68/ 67				.1	.3	.4	.4	1.1	1.0	.8	.3							41	41				
66/ 65				.3	.6	.7	.8	1.4	.9	.2								37	37				
64/ 63				.6	.7	1.1	1.8	.8	.9	.2								55	55		2		
62/ 61		.1	.2	.6	.8	1.3	2.1	1.8	1.1	.1								79	79		7		
60/ 59		.1	1.0	.8	1.1	1.8	2.3	.4	.3									71	71		17		
58/ 57		.6	1.2	1.3	2.4	2.6	1.4	1.4	.2									101	101		2		
56/ 55		.6	.4	1.9	2.6	2.2	1.4	.7	.2									90	90		5		
54/ 53		.9	1.6	3.0	2.1	1.7	.8	.7										96	96		25		
52/ 51		.8	2.2	2.4	2.2	1.6	.8											90	90		35		
50/ 49		.8	3.4	2.2	1.6	.8	1.0											88	88		46		
48/ 47		.3	1.0	1.2	1.1	1.2												44	44		57		
46/ 45		.6	.3	.7	.6	.4	.1											24	24		64		
44/ 43		.2	.4	.8	.4	.3												20	20		85		
42/ 41		.2	.4	.2	.2													10	10		92		
40/ 39		.1	.2	.1	.1													5	5		86		
38/ 37		.1		.1														3	3		53		
36/ 35			.2															2	2		77		
34/ 33			.1															1	1		56		
32/ 31																					54		
30/ 29																					30		
28/ 27																					42		
26/ 25																					21		
24/ 23																					19		
22/ 21																					5		
20/ 19																					9		
18/ 17																					.4		
16/ 15																					.1		
Element (X)	Σ X <sup>2</sup>		Σ X		X		X		X		X		X		X		X		X		X		
Rel. Hum.																			≈ 80 F		≈ 93 F		
Dry Bulb																							
Wet Bulb																							
Dew Point																							
Mean No. of Hours with Temperature																						Total	
= 0 F																							
= 32 F																							
= 67 F																							
= 73 F																							
= 80 F																							
= 93 F																							

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 2

1800-2000  
HOURS (L. S. T.)

0-26-5 (OL A)

USAFETAC

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

APR  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dew Point	
66/ 65						.1	.3	.1										1		
64/ 63				.2	.7	.3	.3	.1										15		
62/ 61		.1	.1	.6	.4	.9	.4	.3										26		
60/ 59		.2	.4	.9	.7	1.0	.6	.2										36	1	
58/ 57		.4	1.0	1.1	1.3	.6	.7	.4										50	7	
56/ 55		.2	1.6	1.6	1.7	.8	.2											54	23	
54/ 53		1.3	1.8	3.3	2.6	1.8	.4											101	27	
52/ 51	.1	1.1	3.9	2.2	1.7	.9	.1											90	57	
50/ 49		2.8	5.4	3.0	3.4	1.1	.1											143	14	
48/ 47		1.9	5.0	2.8	1.9	.9												112	45	
46/ 45		2.4	3.3	2.3	2.0	.6												96	50	
44/ 43	.2	1.4	2.1	2.1	1.0	.2												64	68	
42/ 41		1.3	1.9	1.0	.7													44	125	
40/ 39			1.3	1.6	.8													33	88	
38/ 37		.6	.7	.7	.1													18	77	
36/ 35		.1	1.0	.1														11	85	
34/ 33			.1	.1														2	57	
32/ 31			.1															1	49	
30/ 29		.1	.1															2	42	
28/ 27																		2	32	
26/ 25																		1	31	
24/ 23		.1																1	23	
22/ 21																			1	
20/ 19																			1	
18/ 17																			1	
TOTAL	314.2	29.9	223.6	18.9	9.1	2.9	1.1											900	900	
								</												

Mean No. of Hours with Temperature

No. Obs.

$\bar{x}$

$\bar{x}$

$\Sigma x$

$\Sigma x^2$

Element (X)

Rel. Hum.	Dry Bulb	Wet Bulb	Dew Point	Total
4175610	59952	66.6	14.229	900
2248697	44643	49.6	6.173	900
1793122	39850	44.3	5.645	900
1376254	34530	38.4	7.565	900

## PSYCHROMETRIC SUMMARY

**APR**  
**MONTH**

HOURS (L. S. T.)

USAFETAC FORM 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**YEARS**

**APR**  
**MONTH**

PAGE 2

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/MADRID YEARS 68-77  
MAY MONTH  
PAGE 1 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Wet Bulb	Dew Point	
70/ 69							.2	.3										2			
68/ 67						.1	.5	.3										10			
66/ 65						.3	.6	.2	.1									10			
64/ 63			.1	.4	.3	1.0	.5	.2										24			
62/ 61		.2	.3	1.0	.8	.6	.4	.1	.1									36			
60/ 59		.3	1.0	.8	1.1	.5	.2											36	5		
58/ 57		1.0	.9	1.6	1.6	.6	.3	.1										57	21	6	
56/ 55	.2	2.8	1.4	2.3	1.0	.5	.3											79	49	9	
54/ 53	.1	3.4	3.1	3.2	.6	.6	.1											105	76	33	
52/ 51	.4	2.6	4.6	1.5	1.0													94	89	54	
50/ 49	.2	4.4	6.0	2.5	1.0													131	117	76	
48/ 47	.6	4.1	3.7	.8	.5	.1												91	141	92	
46/ 45	.5	4.1	2.8	1.3	.1													82	111	137	
44/ 43	.3	3.1	2.4	1.2	.3													68	98	110	
42/ 41	.1	3.0	1.8	.5														51	80	79	
40/ 39		.6	2.0	.2														27	60	74	
38/ 37	.1	1.1	.5															16	42	74	
36/ 35		.5	.3															8	26	69	
34/ 33			.1															1	11	52	
32/ 31		.1																1	1	38	
30/ 29																			2	15	
28/ 27																				7	
26/ 25	2.7	1.4	1.1	1.7	.5	8.4	4.5	3.1	1.0	.2								929	929	4	
TOTAL																					

Mean No. of Hours with Temperature

Element (X)	Z X'	Z X	X	No. Obs.	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Rel. Hum.	5432571	69255	75.2	929							93
Dry Bulb	2430464	47106	50.7	929		.1	1.2				93
Wet Bulb	2049795	43325	46.6	929		.3					93
Dew Point	1729118	39634	42.7	929		6.4					93



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

PAGE 1

0300-0500  
HOURS (L. S. T.)

MAY  
MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		D.B./W.B.	MEAN NO. OF HOURS WITH TEMPERATURE											TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	≥ 73 F	≥ 80 F		≥ 93 F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
64/ 63				.1	.1	.1	.2											5	5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

USAF ETAC

FORM 64

0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

**MAY**  
**MONTH**

**0600-0800**  
**HOURS (L. S. T.)**

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS PAGE 1 0900-1100 HOURS (L. S. T.) MAY MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81										.3	.2	.1	.1					5	5		
80/ 79								.1	.1	.3	.1	.1						8	8		
78/ 77									.6	.9	.4	.1						22	22		
76/ 75								.3	1.1	.8	.5		.2					36	36		
74/ 73								.2	1.0	.1	.4	.1						25	25		
72/ 71								.1	1.0	.4	.1							35	35		
70/ 69								.8	1.1	.3								42	42		
68/ 67								.3	1.7	.5	.1							68	68	1	
66/ 65								.5	1.4	.4								63	63	2	
64/ 63								.2	1.7	.3								69	69	20	
62/ 61								.3	1.8									80	80	31	2
60/ 59								.2	1.9	.2								104	104	75	2
58/ 57	.3	.2	.3	.3	.3	.3	.3	.1	.1	.1								91	91	99	12
56/ 55		.1	.1	.1	.1	.1	.1	.5	.3									90	90	109	31
54/ 53		.5	.5	.5	.5	.5	.5	.3										80	80	116	52
52/ 51		.2	.2	.2	.2	.2	.2	.1										40	40	121	78
50/ 49	.1	.1	.1	.1	.1	.1	.1	.5										46	46	108	110
48/ 47	.1	.2	.2	.2	.2	.2	.2	.1										14	14	100	123
46/ 45			.2	.4	.4	.4	.4											6	6	70	100
44/ 43		.2	.1															3	3	44	71
42/ 41			.1															1	1	22	98
40/ 39																				10	85
38/ 37																					52
36/ 35																					48
34/ 33																					20
32/ 31																					15
30/ 29																					19
28/ 27																					7
24/ 23																					1
22/ 21																					1
18/ 17	.5	4.3	10.0	16.2	17.3	18.5	14.3	8.0	5.0	3.3	1.8	.3	.3					928	928		928
TOTAL																		928		928	

Element (X)	ΣX <sup>2</sup>	ΣX	X̄	s <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3162001	52365	56.4	5.164	928	≥ 73 F	≥ 80 F	≥ 93 F				Total
Dry Bulb	3543059	56875	61.3	7.863	928	24.2	9.6					93
Wet Bulb	2564422	48522	52.3	5.434	928	.1						93
Dew Point	1892292	41442	44.7	6.699	928			4.4				93

Element (X)	Σ X <sup>2</sup>	Σ X	Σ X	Σ X	No. Obs.	Mean No. of Hours with Temperature											
						≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Rel. Hum.	3162001	52365	56.4	15.1	64	928											
Dry Bulb	3542059	56875	61.3	7.8	63	928					24.2	9.6	.9				93
Wet Bulb	2564422	48522	52.3	5.4	34	928					.1						93
Dew Point	1892292	41442	44.7	6.6	99	928				4.4							93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID YEARS 68-77 MONTH MAY PAGE 1 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31							
90/ 89													.1	.1	.1	.1		2	2	2				
88/ 87													.1	.1	.1	.1		2	2	2				
86/ 85										.1	.2	.8	.6	.5	.3	.1		24	24	24				
84/ 83								.2		.3	.4	.9	.8	.3	.2	.1		30	30	30				
82/ 81										.6	.6	1.8	.5	.3	.1			37	37	37				
80/ 79							.1	.4	.4	.5	.5	.5	.4	.2				31	31	31				
78/ 77							.1	.4	.6	1.0	.6	.6	.3					35	35	35				
76/ 75							.2	.3	1.0	.6	.4	.2	.1					27	27	27				
74/ 73						.1	.4	.9	1.7	1.3	1.0	.5						55	55	55				
72/ 71						.2	1.1	1.4	1.2	1.3	.3							51	51	51				
70/ 69					.6	.6	1.8	1.8	1.4	.5	.3							67	67	67	2			
68/ 67					.4	.9	2.4	3.0	1.5	1.0								85	85	85	3			
66/ 65				.6	1.0	1.3	1.9	2.3	.9	.5								79	79	79	12			
64/ 63			.3	.6	.8	2.2	1.9	1.7	.2	.1								73	73	73	41			
62/ 61			.3	.3	1.5	1.7	2.2	1.4	.5	.1								75	75	75	46			
60/ 59			.4	1.6	1.8	1.1	1.1	.6	.2	.1								66	66	66	98			
58/ 57		.6	.8	1.5	1.4	1.2	1.1	.1										62	62	62	112			
56/ 55	.1	.1	1.0	.6	1.2	.8	1.9											53	53	53	118			
54/ 53		.4	1.5	.8	.4	.2	.4											35	35	35	144			
52/ 51		.4	.6	.6	.2	.4												22	22	22	125			
50/ 49			.3	.3	.4	.3												13	13	13	89			
48/ 47		.2	.1		.1													4	4	4	57			
46/ 45		.1																1	1	1	44			
44/ 43																					26			
42/ 41																					10			
40/ 39																					2			
38/ 37																					63			
36/ 35																					49			
34/ 33																					33			
32/ 31																					27			
30/ 29																					17			
28/ 27																					9			
26/ 25																					1			
20/ 19																					2			
Element (X)	Σ X <sup>2</sup>				Σ X		X̄			No. Obs.	Mean No. of Hours with Temperature											Total		
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≥ 80 F	≥ 93 F									
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

MAY  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

PAGE 2

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 08-77 YEARS MONTH MAY

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
92/ 91															.1			1	1					
90/ 89															.1			3	3					
88/ 87															.2	.4		10	10					
86/ 85															.2	.3		31	31					
84/ 83									.2	.1	.3	1.0	1.2	1.0	.3	.1		39	39					
82/ 81						.1				.6	.3	1.4	.8	.6	.1			37	37					
80/ 79								.2	.1	.9	.5	.6	.3	.4	.1			34	34					
78/ 77								.3	1.0	.9	.6	.3	.2	.2				33	33					
76/ 75							.4	.1	.6	1.5	1.7	1.0	.4	.1				55	55					
74/ 73							.2	1.1	1.6	.9	1.1	.8	.1					53	53					
72/ 71							.6	1.0	1.9	.3	.2	.2						40	40		1			
70/ 69					.2	.6	.3	1.9	1.7	1.2	1.1	.2						68	68		5			
68/ 67					.4	.6	.8	2.4	2.5	.6	.1							69	69		4			
66/ 65				.4	.2	1.0	1.3	1.6	1.0	.6								57	57		35			
64/ 63			.2	.3	1.4	2.4	1.3	1.8	.9	.5								86	86		46			
62/ 61		.1	.3	.6	1.4	1.6	2.3	1.2	.1	.3								74	74		94			
60/ 59		.3	.6	.9	1.9	2.4	1.3	1.0	.3		.2							83	83		55			
58/ 57		.4	.3	1.6	1.2	1.1	.8	.5										55	55		111			
56/ 55		.2	.9	.5	1.0	.3	.9	.2										37	37		137			
54/ 53		.3	.8	.6	.6	1.3	.4	.1										33	33		114			
52/ 51		.1	1.0	.2	.2	.1												15	15		145			
50/ 49		.2	.3	.1	.1													6	6		101			
48/ 47		.2	.2		.1													5	5		59			
46/ 45		.3	.1	.1														5	5		33			
44/ 43		.1																1	1		33			
42/ 41																					11			
40/ 39																					1			
38/ 37																					85			
36/ 35																					55			
34/ 33																					71			
32/ 31																					42			
30/ 29																					23			
28/ 27																					21			
26/ 25																					12			
24/ 23																					9			
Element (X)	Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X		
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

YEARS

**MAY**  
**MONTH**

PAGE 2

**1500-1700**  
**HOURS (L. S. T.)**

[illegible]



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AB SPAIN/MADRID  
STATION NAME

8-77  
YEARS

PAGE 1

1800-2000  
HOURS (L. S. T.)

MAY  
MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL														
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
88/ 87																.1		1	1														
86/ 85												.3	.3	.2	.2			10	10														
84/ 83								.1	.1	.2	.1	.2	.4	.3		.1		13	13														
82/ 81								.2	.3	.3	.3	.9	.2	.6				21	21														
80/ 79								.3	.3	.6	.3	.5	.2		.1			20	20														
78/ 77								.3	.3	.3	.6	.2	.1					18	18														
76/ 75						.1	.2	.3	.3	1.1	.5	.1	.2	.1				34	34														
74/ 73						.3	.3	.3	1.1	1.0	.5	.8	.1	.1				48	48														
72/ 71						.1	.6	1.5	1.3	.2	.4	.2	.1					42	42														
70/ 69					.1	.2	.9	.6	.5	1.0	.9							39	39														
68/ 67				.2	.5	1.1	2.3	1.6	1.2	.3	.1							68	68	2													
66/ 65				.3	.5	1.3	1.0	1.3	1.3	.3		.1						57	57	8													
64/ 63			.2	1.0	1.7	1.8	1.4	.6	.6	.1								70	70	14													
62/ 61		.1	1.1	.6	1.4	2.4	1.6	1.2	.2	.1								81	81	33	1												
60/ 59		.4	.4	1.7	1.4	.9	1.2	.1	.2									59	59	71	4												
58/ 57		1.0	1.5	1.8	1.8	1.4	1.0	.3	.1	.1								84	84	106	10												
56/ 55	.1	.9	1.9	1.7	1.9	1.3	.9	.1	.1									82	82	97	23												
54/ 53		.3	1.9	2.3	1.0	.8	.3		.1									62	62	128	43												
52/ 51		.9	1.4	1.3	1.0	.5	.2											49	49	125	55												
50/ 49		1.0	1.7	.6	.8	.3	.1	.1										43	43	118	123												
48/ 47		.6	.4	.2	.6	.1												19	19	100	90												
46/ 45		.3	.2	.1	.1													7	7	59	117												
44/ 43			.2	.1														3	3	33	97												
42/ 41																				21	83												
40/ 39																				11	59												
38/ 37																				4	64												
36/ 35																					51												
34/ 33																					37												
32/ 31																					37												
30/ 29																					12												
28/ 27																					13												
26/ 25																					4												
24/ 23																					4												
16/ 15																					2												
Element (X)	Σ X <sup>2</sup>			Σ X			X̄			No. Obs.			Mean No. of Hours with Temperature			Σ 0 F			Σ 32 F			Σ 67 F			Σ 80 F			Σ 93 F			Total		
Rel. Hum.																																	
Dry Bulb																																	
Wet Bulb																																	
Dew Point																																	



## PSYCHROMETRIC SUMMARY

**YEARS**

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

68-77

**YEARS**

**Abstract**

MAY  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS PAGE 1 MAY MONTH ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
92/ 91															.0	.0		1	1		
90/ 89															.0	.0		5	5		
88/ 87												.1	.1	.1	.0	.1		13	13		
86/ 85										.0	.1	.2	.2	.2	.1	.0		65	65		
84/ 83								.0	.0	.1	.1	.3	.3	.3	.1	.0		82	82		
82/ 81							.0	.0	.0	.2	.2	.5	.2	.2	.2	.0		100	100		
80/ 79							.0	.1	.1	.3	.3	.2	.2	.1	.0			93	93		
78/ 77							.0	.2	.3	.4	.3	.2	.1	.0				108	108		
76/ 75						.0	.1	.2	.5	.5	.4	.2	.1	.0				157	157		
74/ 73						.1	.2	.4	.7	.4	.4	.3	.0	.0				185	185		
72/ 71					.0	.1	.6	.7	.7	.3	.1	.1	.0					185	185		
70/ 69					.2	.4	.7	.8	.6	.4	.3	.0						251	251	3	
68/ 67				.1	.5	.9	1.2	1.1	.7	.3	.0	.0						354	354	11	
66/ 65			.0	.3	.4	1.0	.9	.9	.5	.2	.0							315	315	26	
64/ 63		.0	.2	.7	.9	1.3	1.0	.8	.3	.1	.0							390	390	113	3
62/ 61		.1	.5	.9	1.3	1.3	1.2	.7	.1	.1								453	453	166	5
60/ 59		.2	.8	1.4	1.6	1.1	.8	.3	.1	.0	.0							486	486	379	15
58/ 57	.0	1.0	1.0	1.8	1.6	1.1	.6	.2	.0	.0								548	548	537	58
56/ 55	.1	1.5	1.7	1.5	1.4	.8	.7	.1	.0									576	576	684	157
54/ 53	.1	1.7	2.7	2.0	1.1	.8	.2	.0	.0									638	638	789	319
52/ 51	.2	1.3	2.5	1.1	.8	.3	.1											467	468	915	454
50/ 49	.1	2.4	2.9	1.2	.7	.2	.0	.0										559	559	858	755
48/ 47	.2	2.1	1.8	.7	.5	.1												393	393	850	763
46/ 45	.1	2.2	1.2	.7	.1	.0	.0											333	333	624	893
44/ 43	.1	1.5	1.0	.5	.1													241	241	532	816
42/ 41	.0	1.3	.9	.3														188	188	362	731
40/ 39	.0	.6	.8	.1														112	112	225	609
38/ 37	.1	.7	.2															71	71	171	531
36/ 35	.0	.4	.1															37	37	115	463
34/ 33	.2	.2	.0															13	13	50	339
32/ 31	.0	.1																9	9	11	245
30/ 29	.0	.0																3	3	9	150
28/ 27		.0																1	1	2	75
26/ 25																					28
Element (X)	Σ X'		Σ X		X		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total				
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
14011	TORREJON AR SPAIN/MADRID	68-77	MAY

**PAGE 2**

MAY  
MONTH

ALL  
S (L. S)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS PAGE 1 0000-0200 MONTH JUN HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	± 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81																		3	3		
78/ 77											.2							2	2		
76/ 75						.1			.1	.1	.2							5	5		
74/ 73								.1	.3	.1								5	5		
72/ 71					.2	.2	.6	.3	.2	.2								16	16		
70/ 69					.6	.4	.4	.7	.3	.1								23	23		
68/ 67					1.1	1.4	1.2	.9	.4									59	59		
66/ 65		.2	.8	1.0	.2	1.0	.6	.3										47	47		2
64/ 63	.1	.8	2.1	2.0	.6	1.2	1.6	.3	.1									79	79		11
62/ 61	.6	.9	2.4	1.7	2.1	2.0	1.0	.2										98	98		44
60/ 59	.1	1.2	2.8	2.6	1.7	.8	.2	.2										86	86		74
58/ 57	.2	4.5	2.8	1.9	2.1	.6	.1	.4										126	126		100
56/ 55	.7	4.3	3.9	2.6	1.0	.6												117	117		130
54/ 53	.3	3.8	2.1	2.1	.9	.7	.1											87	87		95
52/ 51	.3	1.4	1.9	.6	.6	.1												44	44		142
50/ 49	.4	1.9	2.6	1.1	.6													61	61		95
48/ 47	.1	1.2	.3		.3	.1												19	19		74
46/ 45	.1	.4	.2	.2	.2													11	11		47
44/ 43		.7	.1		.2													9	9		26
42/ 41		.1	.1	.1														3	3		9
40/ 39																					6
38/ 37																					5
36/ 35																					1
34/ 33																					14
32/ 31																					7
30/ 29																					14
28/ 27																					5
26/ 25																					3
TOTAL	2.72	1.92	2.81	7.91	3.3	9.2	5.8	3.6	1.6	.6	.4	.3						900	900	900	900
Element (X)	ΣX <sup>2</sup>	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	No. Obs.	Mean No. of Hours with Temperature						TOTAL				
Rel. Hum.	4749277	63629	70.71	6.702						900	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total				
Dry Bulb	3126583	52729	58.6	6.442						900			11.3	1.5	.3		90				
Wet Bulb	2550286	47690	53.0	5.085						900							90				
Dew Point	2130726	43468	48.3	6.613						900		2.3					90				

Element (X)	Σ X <sup>2</sup>		Σ X		No. Obs.		Mean No. of Hours with Temperature						Total	
	4749277	63629	70.71	6.702	900	900	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total	Total
Rel. Hum.	3126583	52729	58.6	6.442	900	900			11.3	1.5	.3		90	90
Dry Bulb	2550286	47690	53.0	5.085	900	900							90	90
Wet Bulb	2130726	43468	48.3	6.613	900	900			2.3				90	90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 TURKEY ON SPAIN/MADRID  
STATION NAME

68-77

YEARS

JUN  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Wet Bulb	Total
72/ 71					.1	.1				.1								1	1	
70/ 69					.1	.1												3	3	
68/ 67			.1	.1	.6	.3	.2	.3										15	15	
66/ 65			.1	.1	.4	.2	.1	.4										12	12	
64/ 63		.3	.8	.8	.7	.6	.4											34	34	3
62/ 61	.1	1.0	1.2	1.4	.9	.3	.3											48	48	17
60/ 59	.8	1.8	3.4	1.8	1.6	1.3	.1	.1										98	98	23
58/ 57	.3	4.0	2.7	2.2	1.7	.4	.1											103	103	59
56/ 55	.7	5.8	3.3	3.4	2.1													138	138	97
54/ 53	1.4	5.0	4.1	2.7	1.1	.1												130	130	130
52/ 51	.7	2.8	2.9	1.2	1.0	.2												79	79	128
50/ 49	.7	4.0	4.6	1.3	.6													100	100	107
48/ 47	.8	3.0	1.3	.6	.4													55	55	133
46/ 45	.2	2.8	.6	.8	.2													41	41	67
44/ 43	.1	1.4	.4	.4	.1													23	23	51
42/ 41	.1	.6	.1		.2													9	9	32
40/ 39		.4	.3															7	7	12
38/ 37		.1	.2															3	3	9
36/ 35																				6
34/ 33																				2
32/ 31																				9
30/ 29																				9
28/ 27																				1
26/ 25	5.9	33.0	6.3	6.8	1.8	3.9	1.3	.9		.1								899	899	2
TOTAL																				899

Mean No. of Hours with Temperature

No. Obs.

°a

X

Zx

Zx'

Element (X)

Rel. Hum.  
Dry Bulb  
Wet Bulb  
Dew Point

80 F  
73 F  
67 F  
32 F  
0 F

93 F  
Total

90  
90  
90



# PSYCHROMETRIC SUMMARY

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/WAC

14011 TURREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

JUN  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	W.B./W.B.	Dry Bulb	Wet Bulb	Dew Point									
82/ 81																			3	3										
80/ 79									.1	.2									3	3										
78/ 77						.1				.1	.2								2	2										
76/ 75							.2			.1	.2								5	5										
74/ 73					.1	.4	.3	.4	.1	.3	.1								18	18										
72/ 71				.1	.7	.6	.3	.7	.3	.3									24	24										
70/ 69			.2	.2	1.4	.6	1.3	.8	.3										44	44										
68/ 67			.1	.7	2.1	2.0	1.4	.6	.3	.1	.1								64	64	2									
66/ 65		.1	1.0	1.7	1.6	2.1	1.1	.4											72	72	7									
64/ 63		.7	1.4	2.3	1.2	2.1	.8	.1		.1									83	83	20									
62/ 61	.4	.7	3.6	2.6	2.6	1.7	.2	.1											106	106	54									
60/ 59	.3	1.1	2.9	2.6	2.2	1.1	.6												97	97	87									
58/ 57	.2	2.9	3.7	3.6	1.0	.3	.2	.1											112	112	131									
56/ 55	.3	4.6	3.2	1.7	.9	.6	.4												105	105	135									
54/ 53	.2	2.2	2.3	1.6	.2	.3													67	67	166									
52/ 51	.4	1.7	1.0	.8	.4	.2													41	41	117									
50/ 49		1.2	1.2	.3	.8	.1													33	33	70									
48/ 47		.7	.6	.1	.1														13	13	49									
46/ 45		.1		.1	.1														3	3	31									
44/ 43		.3	.1																5	5	18									
42/ 41																					8									
40/ 39																					3									
38/ 37																					2									
36/ 35																					19									
34/ 33																					10									
32/ 31																					6									
30/ 29																					11									
28/ 27																					4									
TOTAL	2.0	16.8	1.3	18.3	15.2	12.6	7.1	3.0	1.6	.9	.2	.2	.1					900	900	900	900									
Element (X)	Σ X <sup>2</sup>			Σ X			X̄			σ <sub>x</sub>			No. Obs.			Mean No. of Hours with Temperature														
Rel. Hum.	4498522			61982			68.915.991			900			Σ 0 F			Σ 32 F			Σ 67 F			Σ 93 F			Total					
Dry Bulb	3316370			54318			60.46.510			900									16.3			3.1			.3			90		
Wet Bulb	2668468			48810			54.24.872			900												.2						90		
Dew Point	2223405			44239			49.36.158			900						3.6												90		

Mean No. of Hours with Temperature

No. Obs.

°F

°F

°F

°F

°F

°F

°F

°F

°F

°F

Element (X)	Zx <sup>2</sup>	Zx	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature	Total
Rel. Hum.	4498522	61982	68.9	15.991	900	≥ 80 F	90
Dry Bulb	3316370	54318	60.4	6.510	900	≥ 73 F	90
Wet Bulb	2668468	48810	54.2	4.872	900	≥ 67 F	90
Dew Point	2223405	44389	49.3	6.158	900	≥ 60 F	90



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AR SPAIN/MADRID  
STATION NAME

68-77

YEARS

JUN  
MONTH

PAGE 1

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL													
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
90/ 69																			2														
88/ 67												.1	.1		.4	.1			5														
86/ 65											.6	.1	.4	.2	.1				13														
84/ 63											.7	.6	.4	.1					22														
82/ 61									.4	.6	.6	.9	.6		.1	.1			37														
80/ 79							.9	.4	1.6	1.8	.9	.9							55														
78/ 77					.2	.1	1.0	1.8	2.4	2.1	.4	.3	.1	.1					76														
76/ 75					.6	.7	2.1	1.2	2.8	.7	.4	.1							74														
74/ 73					.7	1.0	1.7	2.6	2.8	.6	.6	.1	.1						89														
72/ 71					.4	1.2	1.1	1.7	1.2	.6	.2								63														
70/ 69					1.2	1.2	2.3	1.7	.6	.7	.1								68	2													
68/ 67			.2	.3	3.2	2.9	2.1	1.7	.6	.7									96	15													
66/ 65		.1	.6	.6	1.6	2.7	1.8	1.0	.7	.2									82	57													
64/ 63		.1	.3	1.6	1.3	2.0	1.0	.6	.1	.1									64	80	5												
62/ 61		.4	1.0	1.8	1.1	.9	.7	.3	.1	.1									58	129	17												
60/ 59		.3	1.1	1.0	.6	.3	.3												42	154	36												
58/ 57		.6	.6	.7	.9	.1	.1												26	157	50												
56/ 55		.4	.4	.8	.2	.2													19	114	99												
54/ 53		.3	.2	.3															8	86	109												
52/ 51		.1																	1	50	82												
50/ 49																				33	120												
48/ 47																				18	118												
46/ 45																				5	74												
44/ 43																					72												
42/ 41																					49												
40/ 39																					18												
38/ 37																					16												
36/ 35																					12												
34/ 33																					5												
32/ 31																					12												
30/ 29																					5												
26/ 25																					12												
TOTAL		2.4	4.4	7.4	11.0	13.9	14.8	13.7	13.7	13.7	13.7	13.7	13.7	.4	.7	.2		900	900	900													
Element (X)	Σ X <sup>2</sup>		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X												
Rel. Hum.	2454370		44924		49.9		15.355		900		900		900		900		900		900		900												
Dry Bulb	4493191		63227		70.3		7.558		900		900		900		900		900		900		900												
Wet Bulb	3059549		52313		58.1		4.576		900		900		900		900		900		900		900												
Dew Point	2236773		44409		49.4		6.380		900		900		900		900		900		900		900												
Mean No. of Hours with Temperature																						Σ 93 F		Total									
Σ 80 F																						Σ 73 F		Σ 67 F		Σ 60.6		Σ 37.3		Σ 10.6		Σ 90	
Σ 1.7																						Σ 1.8		Σ 1.7		Σ 1.6		Σ 1.5		Σ 1.4		Σ 1.3	

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID YEARS 68-77  
PAGE 1 1200-1400 HOURS (L. S. T.)  
JUN MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb
102/101																	.1	1	1	
100/99																	.1	1	1	
98/97																	.2	2	2	
96/95																.3	.3	6	6	
94/93																.1	.4	7	7	
92/91														.1	.3	.4		11	11	
90/89											.1	.4	.9	.2	.3	.4		21	21	
88/87										.1	.1	1.6	1.7	1.0	.9	.2	.1	42	42	
86/85									.6	.7	1.3	2.0	1.7	2.3	.9	.2	.2	86	86	
84/83							.1	.3	.9	1.3	1.2	1.9	1.9	.4	.2	.1		71	71	
82/81							.1	.3	1.0	2.0	1.7	2.4	1.2	.7	.2	.1		86	86	
80/79							.3	.7	1.4	.8	1.4	.3	.4	.1				73	73	
78/77							.7	1.2	2.3	1.9	1.8	.6	.1					49	49	
76/75							.7	.9	1.9	.9	.9	.6						79	79	
74/73					.2	.1	.7	.8	1.0	.8	.3	.1						55	55	
72/71						.4	1.3	1.2	1.4	.3	1.0							57	57	1
70/69			.1	.4	.4	.9	1.3	1.2	1.4	.3								65	65	5
68/67			.1	.4	1.6	1.2	1.8	1.4	.6	.3								67	67	27
66/65			.2	.4	.7	.6	.8	.1		.2								29	29	92
64/63			.3	.4	.6	.8	.6											24	24	95
62/61	.1	.1	.9	.7	.6	.7	.2	.1										30	30	151
60/59	.1	.2	.2	.6	.7	.2	.3											21	21	167
58/57		.3	.3	.1	.2													9	9	142
56/55		.2	.3															5	5	90
54/53		.2	.1															3	3	76
52/51																				33
50/49																				18
48/47																				3
46/45																				
44/43																				104
42/41																				89
40/39																				60
38/37																				32
36/35																				22
34/33																				15
Element (X)	Σ X																No. Obs.		Mean No. of Hours with Temperature	
Rel. Hum.																	≤ 0 F		≥ 80 F	
Dry Bulb																	≤ 32 F		≥ 73 F	
Wet Bulb																	≤ 67 F		≥ 93 F	
Dew Point																			Total	

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 2      1200-1400  
HOURS (L.S.T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/NAF

# PSYCHROMETRIC SUMMARY

14011 STATION TURRETON A3 SPAIN/NAFADK10  
STATION NAME

68-77

YEARS

JUN  
MONTH

PAGE 1

1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
102/101																	.1	1	1			
100/99																	.4	4	4			
98/97																	.4	4	4			
96/95																.1	.3	4	4			
94/93																.7	.8	13	13			
92/91																.2	.7	19	19			
90/89																		43	43			
88/87											.3	.3	.8	1.4	.8	1.2	.2	63	63			
86/85										.1	.4	1.6	2.0	2.2	2.0	.4	.1	80	80			
84/83										.3	.9	2.3	2.8	1.2	.2	.3		74	74			
82/81							.1	.4	.2	.8	.9	1.4	2.6	.6	.4	.3		70	70			
80/79							.4	.6	.6	1.7	1.6	1.3	1.8	.2				68	68			
78/77							.8	1.0	1.4	1.0	1.6	1.1	.4	.1				62	62			
76/75							.4	.8	.7	2.0	1.2	.7	.8					61	61			
74/73						.1	.3	.4	2.1	1.2	.4	.4						55	55			
72/71						.2	.1	.9	1.6	1.0	.2	.2						53	53			
70/69		.1		.2	1.0	.4	.6	.4	.9	.9	.3							44	44	2		
68/67				.2	.7	1.3	.7	.9	1.2	.2	.2							49	49	20		
66/65				.2	.8	.7	.6	.6	.1									29	29	67		
64/63		.3	.6	.8	.7	.6	.6	.6										36	36	97		
62/61	.1	.2	.3	.7	.4	.3	.2											21	21	140		
60/59	.1	.3	1.0	.7	.7	.1												26	26	181		
58/57		.4	.2	.2	.1	.1												10	10	148		
56/55		.3	.2	.2	.2													7	7	116		
54/53			.3															3	3	66		
52/51		.1																1	1	45		
50/49																				16	82	
48/47																				2	77	
46/45																					107	
44/43																					111	
42/41																					103	
40/39																					53	
38/37																					34	
36/35																					19	
Element (X)	Σ X <sup>2</sup>	Σ X		Σ X		Σ X		σ <sub>x</sub>	No. Obs.		Mean No. of Hours with Temperature										TOTAL	
Rel. Hum.											Σ 0 F   Σ 32 F   Σ 67 F   Σ 73 F   Σ 80 F   Σ 93 F										Total	
Dry Bulb																						
Wet Bulb																						
Dew Point																						

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

JUL 64

USAF ETAC

## PSYCHROMETRIC SUMMARY

**JUN**

1500-1700  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/ IAC

# PSYCHROMETRIC SUMMARY

14011 TURREJON AB SPAIN/IAADRID  
STATION NAME

68-77

YEARS

JUN  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
100/ 99																	.1	1	1		
98/ 97																	.2	2	2		
96/ 95																	.3	3	3		
94/ 93																.2	.3	5	5		
92/ 91																	.2	3	3		
90/ 89														.1	.6	.3	.1	17	17		
88/ 87										.2	.1	.4	.2	.6	.8	.3	.1	23	23		
86/ 85									.1	.7	.3	.9	1.6	1.1	1.1	.2	.1	51	51		
84/ 83									.1	.7	.3	1.1	1.4	.7	.1	.2		42	42		
82/ 81								.3	.7	.7	.7	1.6	1.4	.4	.1	.1		54	54		
80/ 79							.1	.3	.4	1.6	1.0	3.0	.7	.3				67	67		
78/ 77							.3	.4	1.2	1.0	1.1	1.3	.2	.3				54	54		
76/ 75					.2	.3	.7	.8	.9	1.7	.9	.4	.4					66	66		
74/ 73					.3	.7	1.0	1.1	1.4	1.2	.7	.3	.1					62	62		
72/ 71			.1	.2	.6	.6	1.0	1.4	2.3	.3	.7	.1						70	70		
70/ 69			.6	.1	1.0	.7	.9	1.8	1.2	.7	.1							63	63	3	
68/ 67		.1	.4	.8	.7	1.4	1.3	2.0	1.0	.6	.1	.1						77	77	15	5
66/ 65		.2	1.0	.4	1.0	.9	1.6	1.0	.4	.2								61	61	56	6
64/ 63		.2	1.4	1.7	.7	.8	.8	.4	.3	.2								59	59	82	22
62/ 61		.3	.8	.8	.4	.4	.3	.2	.1									34	34	113	26
60/ 59		.4	1.1	.4	.2	.2	.2	.1										23	23	140	45
58/ 57		1.1	.7	.3	.3	.2	.2	.1										27	27	167	52
56/ 55		1.2	.2	.7	.1													20	20	131	87
54/ 53		.4	1.0	.1														14	14	93	85
52/ 51			.1	.1														2	2	51	81
50/ 49																				31	79
48/ 47																				16	2
46/ 45																					103
44/ 43																					88
42/ 41																					81
40/ 39																					39
38/ 37																					31
36/ 35																					30
34/ 33																					9

Element (X)		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X	
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					
Total																					





DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID YEARS 68-77 PAGE 1 2100-2300 MONTH JUN HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
86 / 85														.2				2	2					
84 / 83														.1	.1			2	2					
82 / 81												.1	.2					3	3					
80 / 79								.2	.1	.2	.2	.3						10	10					
78 / 77								.2	.6	.7	.2	.2	.1					18	18					
76 / 75						.1	.4	.3		.7	.6	.1	.1					21	21					
74 / 73					.1	.6	.7	.8	1.0	.9	.4	.1						41	41					
72 / 71					.4	2.0	1.0	.9	1.0	.6	.3							56	56					
70 / 69				.9	1.0	1.3	1.6	1.3	1.1	.3	.4							72	72					
68 / 67			.8	.4	.6	2.0	1.3	1.9	.7		.1							70	70					
66 / 65			2.0	.4	1.1	1.7	1.8	1.2	.4	.2								80	80	8	5			
64 / 63	.2	.4	1.6	1.9	2.6	2.0	1.6	.6	.4	.2								103	103	43				
62 / 61		.8	2.9	2.0	2.0	1.9	1.1	.8	.2									105	105	74	17			
60 / 59	.2	1.0	2.9	1.6	2.4	2.0	1.1	.3										104	104	83	35			
58 / 57		2.4	1.9	1.3	1.6	.6	.7											78	78	130	49			
56 / 55	.1	2.4	.7	1.7	.8	.6	.2											58	58	157	67			
54 / 53	.1	1.9	.3	1.1	.1	.2												34	34	132	94			
52 / 51		.2	.8	.3		.2												14	14	101	91			
50 / 49	.1	.4	.8		.1	.1												14	14	80	84			
48 / 47		.6	.6		.2	.1												13	13	54	75			
46 / 45		.1			.1													2	2	26	90			
44 / 43																				4	80			
42 / 41																				4	99			
40 / 39																				4	33			
38 / 37																					13			
36 / 35																					27			
34 / 33																					19			
32 / 31																					9			
30 / 29																					11			
28 / 27																					1			
26 / 25	.4	1.0	3.5	1.1	1.7	1.3	1.5	1.1	.7	3.8	2.3	.9	.4	.3	.1			900	900		900			
TOTAL																		900		900				
Element (X)	2X <sup>2</sup>	2X	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature												TOTAL						
Rel. Hum.	3545059	53911	59.9	3594.740	900	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	3676310	57172	63.5	7.035	900				9.7	.8														
Wet Bulb	2733051	49405	54.9	4.832	900																			
Dew Point	2116253	43161	48.0	7.184	900		2.2																	

USAF ETAC

FORM 0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB, SPAIN/MADRID YEARS MONTH JUN

PAGE 1 HOURS (L.S.T.) ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
102/101																	.0	2	2		
100/99																	.1	6	6		
98/97																	.1	8	8		
96/95																.1	13	13			
94/93														.0	.0	.1	.2	25	25		
92/91														.0	.1	.1	.1	33	33		
90/89												.1	.3	.3	.2	.3	.0	83	83		
88/87										.0	.1	.4	.7	.4	.5	.1	.1	133	133		
86/85									.0	.1	.3	.6	.7	.8	.5	.1	.1	232	232		
84/83							.0	.0	.1	.3	.4	.7	.8	.3	.1	.1		211	211		
82/81							.0	.2	.3	.5	.5	.9	.8	.2	.1	.1		256	256		
80/79							.1	.3	.5	.9	.7	.9	.4	.1				276	276		
78/77							.3	.5	.9	.7	.6	.4	.2	.1				263	263		
76/75					.1	.2	.4	.5	.9	.9	.6	.3	.2					311	311		
74/73					.2	.4	.8	.8	1.3	.7	.4	.2	.0					325	325		
72/71			.0	.0	.4	.8	.3	1.0	1.0	.4	.2	.1						340	340	1	
70/69		.0	.1	.3	.5	.7	1.1	1.0	.7	.3	.3							382	382	12	
68/67		.0	.3	.5	.7	1.2	1.3	1.2	.6	.2	.1	.0						497	497	79	1
66/65	.1	.4	.8	.7	.9	1.3	1.0	.6	.2	.1								412	412	289	8
64/63	.2	.4	1.1	1.5	1.0	1.3	.9	.3	.1	.1								482	482	431	28
62/61	.2	.6	1.6	1.4	1.3	1.0	.5	.2	.1	.0								500	500	722	119
60/59	.2	.8	1.9	1.4	1.3	.8	.3	.1										497	497	909	191
58/57	.1	2.1	1.6	1.3	1.1	.9	.2	.1										491	491	1034	305
56/55	.2	2.4	1.5	1.4	.6	.2	.1											469	469	970	548
54/53	.2	1.8	1.3	1.0	.3	.1	.0											346	346	883	761
52/51	.2	.8	.8	.4	.3	.1												182	182	667	754
50/49	.2	.9	1.2	.3	.3	.0												208	208	473	848
48/47	.1	.7	.3	.1	.1	.0												100	100	349	755
46/45	.0	.4	.1	.1	.1													57	57	178	768
44/43	.0	.3	.1	.1	.0													37	37	99	697
42/41	.0	.1	.0	.0	.0													12	12	53	558
40/39	.0	.1	.0															7	7	25	276
38/37	.0	.0	.0															3	3	16	179
36/35																				7	143

Element (X)	Σ X			Σ	%	No. Obs.	Mean No. of Hours with Temperature					Total	
	Σ X	Σ X	Σ X				≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.													
Dry Bulb													
Wet Bulb													
Dew Point													

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

~~14077~~  
~~STATION~~

TORRE, JIM AR SPAIN/MADRID  
STATION NAME

63-77

STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE

YEARS

JUN  
MONTH

PAGE 2

**ALL**

**HOURS (L. S. T.)**

[illegible]

## PSYCHROMETRIC SUMMARY

LA-27

STATION NAME

YEARS

JUL  
MONTH

13 AUG 1

0000-0200  
HOURS (L. S. T.)

[illegible]



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID YEARS 68-77 MONTH JUL

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb		Wet Bulb	Dew Point
86/ 85									.1									1	1		
84/ 83									.2			.6						3	3		
82/ 81								.1	.2	.1	.3							13	13		
80/ 79								.9	.6	.8	.3	.3						27	27		
78/ 77								.5	.4	.3	.2	.2						18	18		
76/ 75						.3	1.7	1.2	2.0	.8	.3	.1						60	60		
74/ 73	.1				.2	1.0	3.1	2.2	1.1	1.1	.3							60	60	1	
72/ 71						1.3	2.1	1.2	1.2	.3	.1							87	87		
70/ 69			.4		.1	1.7	1.8	2.5	1.6	.1								95	95		
68/ 67			.5		.9	2.7	4.0	1.6	1.0	.2								133	133	3	
66/ 65	.1		1.2	2.4	1.5	2.8	2.0	1.5	.5	.1								113	113	30	
64/ 63		.6	1.6	1.6	1.4	2.6	2.5	.5	.3									104	104	69	
62/ 61		.6	1.1	1.3	2.5	1.7	1.5	.9	.3									92	92	110	
60/ 59		.3	.6	1.1	1.2	.5	.8	.2										44	44	158	
58/ 57		.2	1.0	.6	.6	1.0	.5											37	37	135	
56/ 55		.4	.1	.5	1.0	.5	.3											27	27	151	
54/ 53		.1	.1	.3	.3	.4												12	12	101	
52/ 51			.1		.2													3	3	71	
50/ 49																				48	
48/ 47																				29	
46/ 45																				18	
44/ 43																				5	
42/ 41																					
40/ 39																					
38/ 37																					
36/ 35																					
34/ 33																					
32/ 31																					
30/ 29	.2	2.4	6.3	9.0	14.1	17.5	20.2	23.2	9.5	4.8	1.6	1.5		.1				929	929		
TOTAL																					

Element (X)	Zx'	Zx	X	X'	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2869721	49669	53.7	4.412	929	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Dry Bulb	4230505	62425	67.2	6.211	929			49.8	18.2	1.9		93
Wet Bulb	3010083	52778	56.8	4.721	929			.4	.1			93
Dew Point	2266451	45459	48.9	6.727	929			.9	.1			93

USAFETAC FORM 0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

STATION	STATION NAME
14011	TURREJA DE SPAIN/MAONID

49-77

**YEARS**

**JUL**  
**MONTHS**

PAGE 1

0900-1100  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

7TH MONTH

PAGE 2

0900-1100  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR EATHER SERVICE/NAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJA DE SPAIN/MADRID 8-77 YEARS PAGE 1 1200-1400 JUL MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
104/103																	.1	1	1				
102/101																	.6	6	6				
100/99																	1.5	14	14				
98/97															.2	.3	2.6	30	30				
96/95															.3	1.4	3.2	47	47				
94/93													.3	.1	2.0	1.7	3.4	73	73				
92/91											.3				.9	1.5	1.6	59	59				
90/89										.1	.3	.3			3.3	2.8	.4	113	113				
88/87										.1	.5	1.6	3.2	3.0	1.6	.8	.3	104	104				
86/85									.2	.6	2.7	2.3	4.0	2.3	2.2	.5	.2	149	149				
84/83								.1	.4	1.3	.8	2.3	1.8	.9	.2	.6	.1	79	79				
82/81								.3	.8	1.4	1.8	2.4	.5	1.0	.4			80	80				
80/79								.2	.3	1.0	1.7	1.7	.6	.5	.2			71	71				
78/77								.2	.4	1.0	.5	.3	.4	.1				32	32				
76/75						.2		.3	.5	1.0	.4	.1		.1				27	27				
74/73					.3			.2	.5	.4	.1	.1						16	16				
72/71				.1	.1	.2		.4	.2									12	12		3		
70/69			.1	.3	.2	.1	.1		.4									11	11		18		
68/67																		2	2		53		
66/65																		1	1		171		
64/63	.1	.1																2	2		215		
62/61																					4		
60/59																		190	190		22		
58/57																		143	143		11		
56/55																		81	81		30		
54/53																		25	25		54		
52/51																		25	25		85		
50/49																		5	5		83		
48/47																					147		
46/45																					106		
44/43																					110		
42/41																					96		
40/39																					57		
38/37																					46		
31																					31		
Element (X)	Σ X <sup>2</sup>		Σ X		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature											Total	
Rel. Hum.											≥ 0 F											≥ 80 F	
Dry Bulb											≥ 67 F											≥ 93 F	
Wet Bulb																							
Dew Point																							

## PSYCHROMETRIC SUMMARY

22-87

STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NUMBER	STATION TYPE	STATION CLASS	STATION CODE

YEARS

MONTH

PAGE 2

1200-1400  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 14011 TURRENTON AP SPAIN/MADRID YEARS 55-77 MONTH JUL  
PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		Dew Point	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb				
104/103																	.1	1	1					
102/101																	.5	5	5					
100/99																	3.5	33	33					
98/97																.2	5.6	54	54					
96/95															.3	1.4	0.3	112	112					
94/93														.1	1.4	1.4	4.1	65	65					
92/91											.2	.1	.4	1.5	1.6	2.7	2.2	78	78					
90/89											.1	.4	3.4	2.8	4.1	2.2	1.3	117	117					
88/87										.1	.3	1.4	2.3	2.8	2.3	1.5	.9	106	106					
86/85									.4	.2	.8	1.6	2.2	2.2	2.2	1.4	.8	98	98					
84/83									.3	1.2	.9	1.9	1.7	1.4	1.1	.3	.6	80	80					
82/81									.3	.8	.8	.9	.9	.5	.4	.5		70	70					
80/79							.1	.3	.3	.4	.4	.2	.9	.2	.3			42	42					
78/77						.2	.1	.3	.3	.4	.4	.2						19	19					
76/75					.1	.1	.3	.2	.1	.4								11	11					
74/73						.4	.4	.3	.3	.2								13	13					
72/71						.4	.6	.3	.3									16	16	1				
70/69					.4	.1	.1	.2	.2									8	8	5				
68/67																				25				
66/65			.1															1	1	103				
64/63					.1													1	1	226				
62/61																				234				
60/59																				168				
58/57																				103				
56/55																				38				
54/53																				20				
52/51																				7				
50/49																								
48/47																								
46/45																				108				
44/43																				130				
42/41																				118				
40/39																				111				
38/37																				75				
																				46				
Element (X)	Σ X				Σ X				Σ X				Σ X				Σ X				Σ X			
Rel. Hum.																					Total			
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

JUL  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/AC

# PSYCHROMETRIC SUMMARY

14011 TURREJO AR SPAIN/MADRID  
STATION NAME

YEARS

JUL  
MONTH

PAGE 1

1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
100/ 99																	.5	5	5			
98/ 97																	1.9	18	18			
96/ 95															.1	.1	2.3	23	23			
94/ 93															.2	1.2	4.3	53	53			
92/ 91													.3	.9	.9	.9	1.6	42	42			
90/ 89												.4	.5	1.8	1.6	2.4	1.7	79	79			
88/ 87											.1	.8	2.3	2.4	2.7	1.1	1.0	95	95			
86/ 85											.6	2.5	2.5	2.4	3.1	1.0	.6	119	119			
84/ 83										.3	.6	1.9	2.5	2.4	1.1	.1	.1	84	84			
82/ 81									.5	1.5	1.9	3.2	1.5	1.9	.3	.4		106	106			
80/ 79								.6	.2	1.6	2.4	1.9	.9	1.0	.2	.1		83	83			
78/ 77							.4	.4	.8	1.3	.8	1.3	.5	.4				55	55			
76/ 75					.1	.2	.6	.2	1.6	1.5	.6	.6	.6					59	59			
74/ 73					.2	.5	.5	.4	.3	.4	.4	.1	.1					24	24			
72/ 71			.1	.1	.3	.9	1.1	.6	.8	.1		.3	.1					40	40			
70/ 69			.1	.1	.5	.3	.4	.2	.2	.1	.1							18	18		1	
68/ 67			.2	.2	.2	.4	.2	.1										13	13		15	
66/ 65			.1	.1	.1	.1												9	9		67	
64/ 63																		2	2		157	
62/ 61	.1				.1													2	2		2	
60/ 59		.1																1	1		11	
58/ 57																					23	
56/ 55																					41	
54/ 53																					29	
52/ 51																					17	
50/ 49																					6	
48/ 47																					96	
46/ 45																					106	
44/ 43																					105	
42/ 41																					81	
40/ 39																					76	
38/ 37																					54	
36/ 35																					28	
34/ 33																					30	

Element (X)		Σ X		Σ X <sup>2</sup>		X		Σ X		Σ X <sup>2</sup>		No. Obs.		Mean No. of Hours with Temperature		Total	
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

# PSYCHROMETRIC SUMMARY

[illegible]



DATA PROCESSING FRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/BAKID R-77 YEARS MONTH JUL  
PAGE 1 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
90/ 69															.1			2	2		
88/ 67															.1			2	2		
86/ 65											.2	.3	.2	.2	.5			14	14		
84/ 63									.1	.2	.2	1.1	.2	.8	.2			26	26		
82/ 61									.8	.8	.6	1.6	1.3	.5	.1			53	53		
80/ 79								.2	.4	1.2	1.5	1.7	.8	.1	.2			57	57		
78/ 77						.1	.2	1.7	2.2	1.8	1.5	2.0	1.3	.1				102	102		
76/ 75						.4	.6	1.4	1.7	2.2	2.5	.6	.6					95	95		
74/ 73				.1	.2	.9	1.1	1.2	2.3	1.2	2.7	1.0						98	98		
72/ 71				.4	.5	1.1	1.6	1.5	2.3	2.0	.8	.6						101	101		
70/ 69				.4	.6	1.2	1.7	2.6	3.0	1.7	1.3	.1						118	118		
68/ 67			.4	.5	1.3	.6	1.4	1.3	1.8	1.7	.4	.1						92	92	7	
66/ 65		.1	.6	.2	.6	1.3	1.0	1.4	1.2	.4								64	54	33	1
64/ 63		.1	1.2	1.1	.4	.6	1.2	.9	.9	.2								61	61	71	4
62/ 61		.4	.5	.5	.3	.4	.4	.4	.2									31	31	120	10
60/ 59		.1	.1	.1	.4	.3	.2											11	11	127	30
58/ 57		.1		.2														3	3	162	54
56/ 55																				137	46
54/ 53																				128	67
52/ 51																				81	58
50/ 49																				44	71
48/ 47																				18	73
46/ 45																				2	77
44/ 43																					68
42/ 41																					102
40/ 39																					72
38/ 37																					49
36/ 35																					58
34/ 33																					29
32/ 31																					19
30/ 29																					12
28/ 27																					5
26/ 25																					4
24/ 23																					1
Element (X)	Σ X <sup>2</sup>			Σ X			σ <sub>x</sub>			No. Obs.			Mean No. of Hours with Temperature				Total				
Rel. Hum.													≥ 73 F				≥ 80 F				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

## PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AB SPAIN/MADRID

68-77

STATION NAME

**YEARS**

**JUL**

PAGE 2

2100-2300  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/AF

# PSYCHROMETRIC SUMMARY

14011 TURRETTO AB SPAIN/1ADRID  
STATION NAME

YEARS

JUL  
MONTH

PAGE 1

HOURS (L. S. T.)  
ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-9	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
104/103																	.0	2	2			
102/101																	.1	11	11			
100/99																	.7	52	52			
98/97															.0	.1	1.3	103	103			
96/95														.0	.1	.4	2.0	183	183			
94/93													.0	.1	.5	.6	1.5	197	197			
92/91													.2	.5	.6	.6	.7	188	188			
90/89										.0	.1	.2	.7	1.1	1.0	1.0	.5	338	338			
88/87										.0	.1	.5	1.3	1.1	.9	.5	.3	349	349			
86/85									.1	.2	.5	1.2	1.3	1.0	1.1	.4	.2	462	462			
84/83								.0	.2	.5	1.2	1.5	.8	.5	.3	.1	.1	357	357			
82/81							.1	.5	.6	1.2	1.0	1.5	.8	.5	.2	.1		448	448			
80/79							.3	.8	1.1	1.2	1.1	.9	.4	.3	.1	.0		408	408			
78/77					.0	.2	.5	.8	1.1	.9	.8	.7	.3	.2	.1			384	384			
76/75					.1	.4	.7	.9	1.4	1.0	.6	.3	.2	.0				404	404		1	
74/73					.2	.5	.8	1.1	1.1	.6	.7	.2	.0					368	368		1	
72/71					.3	.6	.9	1.2	.6	.4	.2	.1	.0					391	391		4	
70/69			.1	.2	.4	.7	.9	.9	1.0	.4	.2	.0						399	399		32	
68/67			.2	.4	.7	.9	1.2	1.4	.8	.3	.1	.0						475	475	139		
66/65		.0	.3	.6	.7	.9	1.2	1.0	.4	.1								415	415	577	4	
64/63		.3	.6	.9	.8	1.0	1.2	.3	.3	.0								423	423	984	26	
62/61		.3	.7	.6	.9	1.1	.6	.4	.2									374	374	1183	113	
60/59		.2	.6	.4	.8	.6	.3	.2										253	253	1169	178	
58/57		.2	.4	.4	.3	.3	.2	.1										191	191	966	350	
56/55		.3	.2	.3	.6	.3	.2											138	138	724	470	
54/53		.1	.1	.3	.3	.2	.1											80	80	600	638	
52/51		.0	.1	.1	.1	.0												23	23	454	558	
50/49		.0	.1	.1	.1	.1												20	20	265	877	
48/47		.0	.0	.0	.0													2	2	200	725	
46/45																				94	754	
44/43																				33	719	
42/41																				10	634	
40/39																				3	471	
38/37																					312	
Element (X)	Σ X				Σ				%				No. Obs.				Mean No. of Hours with Temperature				Total	
Rel. Hum.																	≥ 32 F				≥ 80 F	
Dry Bulb																	≥ 73 F					
Wet Bulb																	≥ 67 F					
Dew Point																						

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

JUL 64

FORM

USAFETAC



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 TURREJON AB SPAIN/MADRID 68-77  
STATION NAME

AUG  
MO. TH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL										
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point								
88/ 87																		1	1	1									
86/ 85											.1							1	1	1									
84/ 83									.1	.1	.1	.1						4	4	4									
82/ 81										.4	.2	.1						7	7	7									
80/ 79								.5		.9	.1	.2						16	16	16									
78/ 77							.1	.5	1.1	.3	.1	.1						20	20	20									
76/ 75						.1	.6	1.0	.8	.3	.2	.3						31	31	31									
74/ 73						.6	1.2	.6	.6	.9	.3							40	40	40									
72/ 71				.2	.4	1.2	1.7	1.5	1.2	.9	.1	.1						68	68	68									
70/ 69				.3	1.4	1.1	1.7	1.5	.9	.2	.3	.4						73	73	73									
68/ 67		.3	.6	.6	1.6	3.7	3.1	2.6	1.4	.6								130	130	130	1								
66/ 65		.4	.6	.6	.6	4.1	3.1	2.6	.9	.3	.2							126	126	126	14								
64/ 63		.3	.9	.9	.9	1.2	3.9	2.3	1.8	.8								113	113	113	51								
62/ 61		.1	1.1	1.2	2.3	3.5	2.5	1.2	.6									116	116	116	85								
60/ 59		.2	1.1	.5	1.5	1.7	.8	.6	.3									63	63	63	78								
58/ 57	.3	.4	.2	.6	1.3	1.5	.8	.2	.1									51	51	51	19								
56/ 55		.5	.1	.3	1.2	1.0	.5											34	34	34	36								
54/ 53		.1	.1	1.2	.6	.4												23	23	23	55								
52/ 51				.2	.6	.1												9	9	9	72								
50/ 49			.1	.2	.6													3	3	3	78								
48/ 47				.2	.1													1	1	1	85								
46/ 45																		58	58	58	93								
44/ 43																		32	32	32	102								
42/ 41																		16	16	16	80								
40/ 39																		1	1	1	74								
38/ 37																		1	1	1	68								
36/ 35																					56								
34/ 33																					32								
32/ 31																					25								
30/ 29																					17								
28/ 27																					14								
26/ 25																					4								
24/ 23																					2								
																					3								
Element (X)																													
Rel. Hum.																													
Dry Bulb																													
Wet Bulb																													
Dew Point																													
																		Mean No. of Hours with Temperature											
																		± 0 F		± 32 F		± 67 F		± 80 F		± 93 F		Total	

## PSYCHROMETRIC SUMMARY

**AUG**  
**MONTH**

STATION N/4E

**YEARS**

PAGE 2 0000-0200  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TERRAJON AB SPAIN/MADRID 08-77 YEARS PAGE 1 0300-0500 MONTH AUG  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
78/ 77								.1	.2	.1								3	3			
76/ 75							.1	.2	.3	.1								5	5			
74/ 73						.1	.2	.6	.3									12	12			
72/ 71					.2	.4	.6	.8		.3								23	23			
70/ 69				.1	.6	.6	1.0	.2	.4									28	28			
68/ 67			.1	.6	1.6	1.6	.9	.3	.2									58	58			
66/ 65	.1	.1	.9	1.0	2.0	2.9	1.1	.3	.3	.2	.1							87	87	2		
64/ 63	.1	.1	1.6	2.8	2.9	2.6	1.5	.4	.6	.1								118	118	8	3	
62/ 61		.1	1.0	2.5	4.0	2.7	2.9	.8	.3									132	132	33		
60/ 59		.3	2.0	2.3	5.3	2.6	2.4	.6	.2									146	146	81	13	
58/ 57	.3	1.3	.6	3.3	3.0	1.6	1.2	.4										112	112	109	29	
56/ 55	.1	.8	.8	1.9	3.2	.9	.9	.2										65	65	120	53	
54/ 53	.1	.4	.2	2.4	2.5	1.0	.2	.2										22	22	138	75	
52/ 51			.1	1.0	.9	.2	.2											20	20	101	93	
50/ 49			.6	.4	.6	.4												12	12	109	91	
48/ 47			.3	.5	.3	.1												4	4	57	100	
46/ 45			.1	.3														2	2	35	65	
44/ 43			.1	.1																21	118	
42/ 41																				7	56	
40/ 39																					54	
38/ 37																					41	
36/ 35																					21	
34/ 33																					17	
32/ 31																					16	
30/ 29																					7	
28/ 27																					5	
26/ 25																					1	
24/ 23																					1	
22/ 21	.6	3.1	8.4	15.2	27.4	10.2	13.2	6.1	2.6	1.0	.1							930	930		930	
TOTAL																		930				
Element (X)	Σ X												No. Obs.		Mean No. of Hours with Temperature						Total	
Rel. Hum.	3383943												930		≥ 80 F						93	
Dry Bulb	3642885												930		≥ 73 F						93	
Wet Bulb	2586457												930		≥ 67 F						93	
Dew Point	1967204												930		≥ 62 F						93	



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AR SPAIN/MADRID 08-77 YEARS 08-77 MONTH AUG

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb
84/ 63									.1	.5	.1	.1						1	1	
82/ 61									.1	.1	.1	.1						7	7	
80/ 79								.4	.4	.1	.1	.1						8	8	
78/ 77							.2	.3	.4	.1	.1	.1	.1					11	11	
76/ 75				.1	.1	.3	.6	.6	1.3	.1	.4							30	30	
74/ 73				.1	.3	1.1	1.1	.9	.8	.6	.2							37	37	
72/ 71				.3	.3	1.1	1.3	1.9	.8	.2	.1							53	53	
70/ 69			.1	.2	2.0	1.1	2.2	1.7	1.0	.2	.1							80	80	
68/ 67			.3	.2	1.5	3.9	2.8	1.6	.8	.2								105	105	1
66/ 65			.5	1.7	2.2	2.8	1.7	1.5	.2	.2	.1							102	102	12
64/ 63	.1	.1	1.5	2.4	2.7	2.9	2.7	.9	.5									128	128	43
62/ 61		.4	1.5	1.6	3.4	3.2	1.3	.4										111	111	64
60/ 59	.1	.5	.9	1.7	2.6	1.4	1.0	.2	.1									81	81	116
58/ 57	.3	.4	.4	1.7	2.5	1.2	.3	.2										66	66	143
56/ 55		.6	.3	1.4	1.7		.5	.1										44	44	122
54/ 53		.2	.4	1.2	1.1	.2	.4											33	33	131
52/ 51		.2		1.1	.6													18	18	117
50/ 49		.1	.2	.4	.3													10	10	79
48/ 47			.3		.1													4	4	54
46/ 45			.1															1	1	22
44/ 43																				21
42/ 41																				4
40/ 39																				1
38/ 37																				57
36/ 35																				35
34/ 33																				18
32/ 31																				17
30/ 29																				7
28/ 27																				5
24/ 23	.5	2.7	6.7	13.7	21.5	18.1	16.1	10.9	6.0	2.3	1.2	.3	.1					930	930	930
TOTAL																				
Element (X)	ΣX²	ΣX	X	°X	No. Obs.	Mean No. of Hours with Temperature											TOTAL			
Rel. Hum.	3115566	52240	56.2	14.002	930												Σ 80 F	Σ 93 F	Total	
Dry Bulb	3870668	59692	64.2	6.507	930												Σ 73 F	Σ 9.4	93	
Wet Bulb	2824553	51041	54.9	5.006	930												Σ 67 F	Σ 33.2	93	
Dew Point	2132921	44107	47.4	6.729	930												Σ 62 F	Σ 1.8	93	

USAF ETAC

FORM 0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# PSYCHROMETRIC SUMMARY

14011 TARRINGTON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

AUG  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
96/ 55															.1	.1	.2	3	3		
94/ 53																.1	.1	2	2		
92/ 51												.3	.5	.3	.2	.1	.1	7	7		
90/ 49										.1	.2	.5	1.2	.4	.2	.3	.1	13	13		
88/ 47										.6	.9	1.1	1.2	.4	.2	.2	.1	21	21		
86/ 45								.1	1.2	1.5	1.5	1.6	.6	.8	.1	.1	.1	42	42		
84/ 43							.1	1.1	1.4	2.0	1.9	1.0	.6	.3	.1	.1	.1	70	70		
82/ 41						.5	.8	1.0	2.0	3.5	1.7	1.9	.2	.1	.1	.1	.1	79	79		
80/ 39						.9	1.6	2.6	3.4	2.0	2.0	.9		.1	.1	.1	.1	104	104		
78/ 37						1.0	1.9	2.5	2.9	1.8	1.8	.2			.1	.1	.1	118	118		
76/ 35						1.2	1.6	2.2	2.6	1.4	1.0							110	110		
74/ 33					.2	.3	1.0	1.7	2.2	1.1	1.0							92	92		
72/ 31					.1	.5	1.2	2.2	2.2	1.1			.2					81	81	1	
70/ 29					.5	1.6	1.7	1.7	1.1	.5								67	67	4	
68/ 27					.1	.9	1.0	1.7	1.1	.2		.1						56	56	51	
66/ 25			.6	.1	.2	.6	1.2	.2	.1									29	29	103	
64/ 23	.1	.1	.5	.6	.2	.9	.3	.1										26	26	128	2
62/ 21	.2	.2	.1	.1	.1	.2	.2	.1										7	7	170	24
60/ 19	.2					.1												3	3	156	40
58/ 17																				145	84
56/ 15																				92	83
54/ 13																				52	105
52/ 11																				17	85
50/ 9																				9	121
48/ 47																				2	74
46/ 45																					112
44/ 43																					57
42/ 41																					68
40/ 39																					37
38/ 37																					19
36/ 35																					6
34/ 33																					3
32/ 31																					3
26/ 25																					1
Element (X)	Σ X'		Σ X		X̄		°K		No. Obs.		Mean No. of Hours with Temperature						Total				
Rel. Hum.											≥ 0 F		≥ 32 F		≥ 67 F		≥ 80 F		≥ 93 F		
Dry Bulb																					
Wet Bulb																					
Dew Point																					



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AFB SPAIN/HADRID  
STATION NAME

68-77

YEARS

AUG  
MONTH

PAGE 1

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
106/105																	.1	1	1		
104/103																	.1	1	1		
102/101																	.4	4	4		
100/99																	1.1	10	10		
98/97																	1.0	13	13		
96/95															.4	1.3	1.0	26	26		
94/93													.1	.5	1.2	1.0	1.2	39	39		
92/91											.2	.2	.6	1.9	1.2	1.0	.5	53	53		
90/89										.1	.1	.9	1.7	3.1	2.2	1.4	.6	94	94		
88/87										.2	.2	1.5	1.8	2.3	1.7	.6	.9	86	86		
86/85										.6	.6	2.0	3.2	2.9	2.3	.6	.3	132	132		
84/83								.1	.1	.3	1.1	2.2	3.3	1.4	.1	.2	.4	114	114		
82/81								.1	.1	.3	1.0	2.9	2.2	.6				84	84		
80/79								.2	1.1	1.7	1.8	1.8	1.1	.2				74	74		
78/77								.1	1.5	1.2	1.5	1.4	.1					55	55		
76/75								.1	.5	1.8	1.4	1.1	.1					54	54		
74/73								.1	.6	.5	1.1	.8	.4					42	42		
72/71								.2	.2	.6	.2	.1						17	17		7
70/69								.1	.2									9	9		19
68/67								.1	.1									12	12		65
66/65		.1																7	7		126
64/63																		1	1		148
62/61																		1	1		194
60/59		.1																1	1		162
58/57																					26
56/55																					55
54/53																					90
52/51																					92
50/49																					111
48/47																					94
46/45																					111
44/43																					102
42/41																					64
40/39																					57
Element (X)	ΣX <sup>2</sup>	ΣX			X̄			σ <sub>x</sub>	No. Obs.			Mean No. of Hours with Temperature						TOTAL			
Rel. Hum.																		≥ 80 F	≥ 73 F	≥ 93 F	Total
Dry Bulb																					
Wet Bulb																					
Dew Point																					

DATA PROCESSING BR4, CH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

14011	STATION	TORREJON A3 SPAIN/MADRID	68-77	YEARS	PAGE 2	AUG	MONTH	1200-1400	HOURS (L. S. T.)
-------	---------	--------------------------	-------	-------	--------	-----	-------	-----------	------------------

PAGE 2      1200-1400  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TARRUEJA AB SPAIN/MADRID YEARS 58-77 MONTH AUG  
PAGE 1 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
106/105																	.2	2	2							
104/103																	.4	4	4							
102/101																	.6	6	6							
100/99																	1.3	12	12							
98/97																	2.2	23	23							
96/95																	3.6	53	53							
94/93													.1	.1	.3	1.4	3.4	66	66							
92/91										.1			.1	1.0	2.5	2.2	2.4	75	75							
90/89										.2	.2	.4	1.3	2.9	3.1	2.5	2.0	112	112							
88/87										.3	.6	.6	2.3	2.9	2.6	1.3	1.3	97	97							
86/85									.1	.3	.6	.6	2.3	2.3	3.6	1.9	.5	110	110							
84/83									.1	.5	1.2	1.1	2.5	2.5	.9	.2	.2	92	92							
82/81									.2	.6	.6	.8	1.6	.5	.1			77	77							
80/79									.1	.2	.6	.8	1.6	.5	.1			45	45							
78/77						.1	.1	.2	1.0	.5	1.2	1.4	.8	.1				50	50							
76/75					.1	.1	.4	.2	.6	.8	1.3	.9						41	41							
74/73					.1	.2	.9	.2	.3	.6	.6	.2						24	24	1						
72/71					.2	.2	.6	.6	.1	.6	.1							20	20	2						
70/69					.2	.2	.1	.1										4	4	6						
68/67					.2	.3												7	7	18						
66/65	.1	.3																4	4	89						
64/63	.3	.3			.1													4	4	178						
62/61																		4	4							
60/59			.1															1	1	198						
58/57			.1															1	1	177						
56/55																				137						
54/53																				92						
52/51																				27						
50/49																				5						
48/47																				91						
46/45																				89						
44/43																				109						
42/41																				103						
40/39																				134						
40/39																				81						
Element (X)	Z X																		Z X <sup>2</sup>		Mean No. of Hours with Temperature				TOTAL	
Rel. Hum.																					≥ 73 F				≥ 80 F	
Dry Bulb																					≥ 73 F				≥ 80 F	
Wet Bulb																					≥ 73 F				≥ 80 F	
Dew Point																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	
																					≥ 73 F				≥ 80 F	

## PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AR SPAIN/MADRID

68-77

STATION NAME

YEARS

AUG  
MONTH

PAGE 2

1500-1700  
HOURS (L. S. T.)

HOURS (L, S, T, )

[illegible]



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TIRREJON AB SPAIN/MADRID YEARS 48-77  
 1800-2000 MONTH AUG  
 PAGE 1 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
104/103																	.1	1	1				
100/99																	.3	3	3				
98/97																	.8	8	8				
96/95																.1	.6	10	10				
94/93															.4	.5	1.4	22	22				
92/91										.1				.1	1.2	1.0	1.3	36	36				
90/89												.1	.3	1.3	2.4	.9	.6	52	52				
88/87												.2	1.0	1.5	2.5	1.6	.5	68	68				
86/85										.1	.3	1.4	2.7	2.4	1.8	.9	.1	90	90				
84/83									.1	.9	.9	2.9	1.8	2.8	.5	.4	.1	97	97				
82/81						.1			.1	1.2	1.2	2.9	2.2	1.9	.4	.2		95	95				
80/79						.3			.3	1.6	2.9	2.3	1.6	.6	.1			91	91				
78/77						.1	.2		.3	1.3	1.4	1.8	.6	.3				65	65				
76/75					.1	.4	.4	.4	.4	1.3	2.5	1.2	.3	.2				69	69				
74/73					.4	.4	.4	.3	1.1	1.0	1.4	.8	.1					51	51	1			
72/71					.4	.3	.3	.3	1.1	2.4	.5							58	58	1			
70/69				.1	.4	.2	.3	.6	.9	.9	.2	.1						36	36	1			
68/67				.3	.1	.5	.4	1.1	.6	.2								38	38	6			
66/65		.1	.3	.2	.3	.1	.4	.2	.1	.1								18	18	53			
64/63		.2	.6			.4	.1	.1	.1									14	14	118			
62/61																		4	4	166			
60/59			.3			.1												4	4	183			
58/57																				164			
56/55																				113			
54/53																				88			
52/51																				29			
50/49																				6			
48/47																				1			
46/45																				112			
44/43																				92			
42/41																				95			
40/39																				85			
38/37																				83			
36/35																				45			
Element (X)	ΣX <sup>2</sup>	ΣX		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature							≤ 0 F	≥ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total	
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							

## PSYCHROMETRIC SUMMARY

**AUG**  
**MONTH**

PAGE 2

1800-2000  
HOURS (L. S. T.)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-275 (OLA)

89 74

USAFETAC

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AP SPAIN/MADRID 08-77

PAGE 1 2100-2300  
HOURS (L. S. T.)

AUG MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
90/ 69																	.1	1	1			
88/ 67																		2	2			
86/ 85											.3	.2	.1	.2	.2			10	10			
84/ 83											.2	.1	.2	.1	.1		.1	7	7			
82/ 81											.5	.5	.4	.4				27	27			
80/ 79											1.2	1.1	.3	.1	.1			51	51			
78/ 77											1.2	1.0	.3					56	56			
76/ 75						.2	.2	.1	1.6	2.4	2.6	1.2	.2					96	96			
74/ 73				.2	.2	.6	1.2	2.5	2.3	2.2	2.2	.8	.2					98	98			
72/ 71				.2	.2	.6	1.8	2.0	1.1	1.4	1.4	.5						87	87			
70/ 69			.1	.1	1.0	.6	1.2	3.5	2.8	1.7	1.4	.1						117	117	1	1	
68/ 67			.3	.4	1.0	1.5	2.4	1.6	3.0	.9	.4	.1						108	108	2		
66/ 65		.1	.6	.3	.4	1.1	2.2	2.2	1.9	.6	.1							94	94	19	4	
64/ 63		.3	.5	1.1	.5	.6	1.5	1.9	.4	.2								68	68	49		
62/ 61		.3	.6	.3	.3	.6	1.3	.9	.3									46	46	96	11	
60/ 59	.1	.8	.2	.4	.3	1.0	.3	.3	.1									37	37	105	14	
58/ 57		.2		.2	.4	.8	.1											16	16	152	31	
56/ 55		.1		.1	.1	.4												7	7	157	49	
54/ 53			.1															1	1	132	69	
52/ 51				.1														1	1	104	45	
50/ 49																				77	66	
48/ 47																				28	76	
46/ 45																				7	98	
44/ 43																				1	83	
42/ 41																				109		
40/ 39																				87		
38/ 37																				66		
36/ 35																				52		
34/ 33																				24		
32/ 31																				23		
30/ 29																				9		
28/ 27																				8		
26/ 25																					2	
24/ 23																					3	
Element (X)	ΣX²		ΣX		X̄		S <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature										Total	
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																						
Wet Bulb																						
Dew Point																						

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

STATION	STATION NAME
14011	TORREJON AR SPAIN/MADRID

23-27

STATION NAME

YEARS

**4UG**

PAGE 2 2100-2300  
HOURS (L. S. T.)

PAGE 2

2100-2300  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TUREJEN, AL SPAIN/MADRID (8-77) YEARS AUG MONTH

PAGE 1 ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
106/105																	.0	3	3		
104/103																	.1	6	6		
102/101																	.1	10	10		
100/99																	.3	25	25		
98/97																.1	.5	44	44		
96/95													.0	.0	.1	.4	.7	92	92		
94/93													.1	.1	.4	.5	.8	129	129		
92/91										.0	.0	.0	.1	.4	.6	.5	.5	171	171		
90/89										.0	.0	.2	.5	.9	1.0	.6	.4	272	272		
88/87										.0	.1	.3	.7	.8	.9	.5	.3	275	275		
86/85										.1	.2	.5	1.2	1.0	1.0	.4	.1	385	385		
84/83										.3	.4	.7	1.1	.9	.2	.1	.1	385	385		
82/81										.3	.9	.8	1.1	.7	.1	.0		376	376		
80/79										1.2	1.1	1.0	.6	.2	.0	.0		389	389		
78/77										.8	.9	.9	.2	.1	.0			378	378		
76/75										1.0	1.3	.6	.1	.0	.0			436	436		
74/73										.9	.8	.3	.0					396	396	2	
72/71										.9	.3	.1	.0					407	407	11	
70/69										.4	.3	.1						414	414	31	
68/67										.3	.1	.0						514	514	144	
66/65										.2	.1							467	467	418	
64/63										.1								472	472	723	
62/61										.1								418	418	1006	
60/59										.2								336	336	1058	
58/57										.1								245	245	1073	
56/55										.0								166	166	892	
54/53										.0								122	122	706	
52/51										.1								50	50	532	
50/49										.0								33	33	366	
48/47										.1								17	17	252	
46/45										.0								5	5	118	
44/43										.0								2	2	73	
42/41										.0										26	
40/39										.0										9	

Element (X)		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X	
Ref. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					
Total																					







DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AP SPAIN/MADRID 68-77 YEARS PAGE 1 0300-0500 SEP MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb		Wet Bulb	Dew Point
70/ 69					.2	.2	.1	.1											3	3		
68/ 67					.3	.3	.1	.1	.1										13	13		
66/ 65		.1	.2	.2	.3	1.0	.7	.1	.1										20	20		
64/ 63	.1	.6	1.1	1.3	1.6	1.6	.7	.1	.1										64	64	6	
62/ 61	.1		1.3	.7	2.2	1.6	.3	.2	.1										59	59	18	
60/ 59		2.0	1.4	2.1	2.7	1.6	.3	.1											92	92	17	
58/ 57	.2	1.7	2.0	4.0	1.6	.8	.7	.1											105	105	54	
56/ 55	.2	1.2	3.9	4.7	2.0	1.1	.7	.1											125	125	62	
54/ 53		2.6	3.3	3.6	2.6	.3	.2												113	113	102	
52/ 51	.2	2.0	2.8	1.0	1.7														69	69	146	
50/ 49		1.8	4.5	2.1	1.4	.1	.1												93	93	114	
48/ 47		1.9	2.8	1.7	1.1	.4													71	71	115	
46/ 45		1.3	.7	.9	.3	.1													30	30	109	
44/ 43		.1	.6	.4	.3														13	13	64	
42/ 41		.7	1.1	.7	.3														25	25	34	
40/ 39			.2	.1															3	3	24	
38/ 37			.1	.1															2	2	22	
36/ 35																					9	
34/ 33																					3	
32/ 31																					1	
30/ 29																						
28/ 27																						
26/ 25																						
24/ 23																						
TOTAL	.915	.97	.023	.819	.3	0.0	3.2	.8	.3										900	900	900	
Element (X)	Σ X <sup>2</sup>				Σ X		X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature										Total		
Rel. Hum.	4529782				62060		69.6	13.976	900	≥ 80 F	≥ 73 F	≥ 67 F	≥ 60 F	≥ 53 F	≥ 46 F	≥ 39 F	≥ 32 F	≥ 25 F	≥ 18 F	≥ 11 F	≥ 4 F	
Dry Bulb	2720682				49274		54.7	5.965	900	1.6												
Wet Bulb	2228417				44499		49.4	5.605	900	.1												
Dew Point	1820064				40026		44.5	7.305	900	5.5												



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID

08-77

SEP  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL				
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
88/ 67															.1			1	1				
86/ 65													.1					1	1				
84/ 83									.6	.1	.7	.1	.2	.1				5	5				
82/ 81										.4	.4	.6			.1			21	21				
80/ 79										1.0	.7	.2	.2	.1				32	32				
78/ 77							.4	1.0	1.4	.7	.1			.1				34	34				
76/ 75							1.8	1.6	2.0	.9	.2	.2						60	60				
74/ 73					.1	1.2	2.8	2.0	1.2	.6	.6	.1						77	77				
72/ 71				.2	.6	2.2	2.8	2.1	1.2	.4	.1							87	87				
70/ 69				.2	1.7	1.9	2.6	2.0	1.6	.2	.1							92	92				
68/ 67	.1	.1	.1	.2	1.9	4.3	2.6	2.1	1.2	.3								116	116		2		
66/ 65	.1	.1	.6	1.0	2.0	2.8	2.0	1.6	.2									93	93	31	2		
64/ 63	.2	.4	.9	1.4	1.8	1.1	1.3	.4	.4									73	73	70	2		
62/ 61	.2	.4	1.0	1.3	2.1	1.1	1.6	1.3	.2									88	88	127	7		
60/ 59	.2	.7	1.2	.9	.7	1.4	.4	.2										52	52	145	31		
58/ 57		.4	.6	.8	.6	.6	.6											31	31	148	55		
56/ 55	.1	.4	.2	.4	.2	.1												14	14	119	87		
54/ 53			.3	.3	.6	.3												14	14	101	122		
52/ 51		.1	.3	.2														3	3	67	82		
50/ 49		.1	.3															4	4	39	117		
48/ 47			.2															2	2	36	91		
46/ 45																				12	71		
44/ 43																				4	57		
42/ 41																				1	68		
40/ 39																					38		
38/ 37																					26		
36/ 35																					22		
34/ 33																					14		
32/ 31																					7		
30/ 29	.7	2.7	3.4	7.1	12.1	17.1	19.2	15.1	11.1	4.9	2.2	1.4	.4	.2	.2			900	900		900		
TOTAL																							
Mean No. of Hours with Temperature																							
Element (X)	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	No. Obs.	Mean No. of Hours with Temperature											TOTAL	
Rel. Hum.	2667369	47115	52.4	14.949						900	≥ 80 F	≥ 73 F	≥ 67 F	≥ 62 F	≥ 57 F	≥ 52 F	≥ 47 F	900	900	90			
Dry Bulb	4193261	61133	67.9	6.734						900											90		
Wet Bulb	2942788	51290	57.0	4.696						900											90		
Dew Point	2182823	43923	48.8	6.606						900						.8					90		

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJA AB SPAIN/MADRID  
STATION NAME

08-77  
YEARS

SEP  
MONTH

PAGE 1

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W	Dry Bulb	Wet Bulb	Dew Point	
94/ 93																.1	.1	2	2			
92/ 91																.4	.3	11	11			
90/ 89												.1	.7	.7	1.0	.3	.2	27	27			
88/ 87											.3	.2	.4	1.3	.4	.3	.2	28	28			
86/ 85											.2	1.4	1.2	.9	.4	.3	.1	44	44			
84/ 83									.3	1.3	1.0	1.7	.6	1.0				53	53			
82/ 81								.1	.6	2.1	1.3	2.6	1.1	.3	.2		.1	76	76			
80/ 79								.9	.9	3.4	1.6	1.1	.7	.4	.1			82	82			
78/ 77				.1	.1	.1	.3	1.6	2.4	2.1	1.9	1.3	.4	.2	.1			96	96			
76/ 75					.2	.3	1.0	1.4	3.0	1.6	2.6	.8	.2				105	105				
74/ 73					.2	.3	1.0	1.4	2.3	2.2	1.1	.6	.1				84	84				
72/ 71				.1	.7	.9	1.1	1.7	1.1	1.0	.2						61	61	1	1		
70/ 69			.1	.1	.3	.4	1.4	1.0	1.2	1.2	.1						54	54	1	1		
68/ 67			.1	.3	1.0	1.0	1.4	1.1	1.1	.8	.2						69	69	12	12		
66/ 65		.1	.2	.2	.9	.9	.4	1.0	.7	.6							42	42	67	67		
64/ 63	.1	.1	.1	.3	.2	.2	.4	.7	.3	.2							23	23	122	122		
62/ 61	.2	.1	.2	.2	.2	.4	.1	.3									17	17	151	151		
60/ 59			.2	.1	.2	.3											8	8	156	156		
58/ 57					.1	.1											4	4	134	134		
56/ 55					.2	.2											9	9	102	102		
54/ 53				.2	.2												4	4	63	63		
52/ 51				.1													1	1	53	53		
50/ 49																			19	19		
48/ 47																			18	18		
46/ 45																			1	1		
44/ 43																						
42/ 41																						
40/ 39																						
38/ 37																						
36/ 35																						
34/ 33																						
32/ 31																						
30/ 29																						
28/ 27																						
Element (X)	Σ X <sup>2</sup>			Σ X			Σ			°K			No. Obs.			Mean No. of Hours with Temperature						
Rel. Hum.																≥ 73 F			≥ 80 F			Total
Dry Bulb																						
Wet Bulb																						
Dew Point																						

## PSYCHROMETRIC SUMMARY

69-72

STATION NAME

**YEARS**

**SEP**  
**MONTH**

PAGE 2

1202-1400  
HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
JSAF ETAC  
AIR WEATHER SERVICE/AF

# PSYCHROMETRIC SUMMARY

14011 STATION TURKISH AIR SPAIN/ADAKID R-77 YEARS MONTH SEP

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
96/95																	.2	2	2				
94/93															.1	.3	1.1	14	14				
92/91															.7	.7	1.4	25	25				
90/89													.3	.8	1.0	1.1	.7	35	35				
88/87												.1	.1	1.1	1.1	.9	.8	37	37				
86/85											.2	.8	1.3	1.4	1.0	.3	.1	47	47				
84/83								.1	.3	.1	.4	2.6	1.9	2.0	.4	.1		68	68				
82/81								.1	.9	2.1	3.1	2.6	2.4	.7	.4	.2		86	86				
80/79								.3	1.0	1.1	1.8	2.8	2.7	.4	.2	.3		114	114				
78/77							.6	.6	1.4	1.8	2.8	2.7	.9	.3	.3			101	101				
76/75					.2	.1	.2	.6	1.6	.8	1.2	.9	.7					77	77				
74/73					.1	.7	.1	.6	.2	.3	1.0							53	53				
72/71				.1	.1	.3	1.0	1.4	1.3	1.0	.8							28	28				
70/69			.3	.1	.1	.3	1.0	1.4	1.3	1.0	.8							57	57				
68/67		.1	.3	.4	.2	.9	.6	.8	.9	.4	.1							39	39	4	1		
66/65			.4	.2	.9	.6	.1	.6	.4	.2	.4							34	34	32	6		
64/63		.1	.2	.9	.3	.3	.9	.3	.3	.3								34	34	84			
62/61	.1	.3	.7	.3	.3	.3	.6											21	21	141	7		
60/59	.1	.1	.4	.4	.2	.3			.1									16	16	166	12		
58/57		.1	.1	.1	.1	.2												6	6	183	15		
56/55		.1	.1															2	2	118	35		
54/53			.2		.2													4	4	73	56		
52/51																				56	48		
50/49																				30	74		
48/47																				6	89		
46/45																				7	108		
44/43																					84		
42/41																					104		
40/39																					58		
38/37																					48		
36/35																					58		
34/33																					25		
32/31																					15		
30/29																					8		
Element (X)	ΣX <sup>2</sup>			ΣX			ΣX			ΣX			ΣX			ΣX			ΣX			TOTAL	
Rel. Hum.																			Mean No. of Hours with Temperature		Total		
Dry Bulb																			≥ 80 F		≥ 93 F		
Wet Bulb																			≥ 73 F				
Dew Point																			≥ 67 F				





DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAF

# PSYCHROMETRIC SUMMARY

14011

TURKEYIN AB SPAIN/MADRID

08-77

SEP

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																T. TAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
92/ 41													.2	.3	.1	.3	.3	4	4		
90/ 39															.2	.3	.6	14	14		
88/ 37															.2	.3		7	7		
86/ 35												.3	.2	.4	.6			14	14		
84/ 33												.7	.3	.3	.4	.2		18	18		
82/ 31									.1	.1	.9	2.4	.3	.2				37	37		
80/ 29							.1	.3	.1	1.3	.9	1.6	.7	.3		.1		46	46		
78/ 27							.6	.6	1.6	1.9	2.3	.9	.4	.1				40	40		
76/ 25							.8	1.1	2.4	1.4	1.7	.9	.7					76	76		
74/ 23						.2	.3	1.7	2.4	1.8	.6	.4	.1	.1				79	79		
72/ 21				.1	.6	.7	1.3	2.0	1.7	1.8	.6	.4						77	77		
70/ 19				.1	.1	.1	1.1	1.7	2.4	.9	.3	.3	.1					88	88		
68/ 17			.4	.4	1.6	2.4	1.9	2.3	2.4	.8								111	111		
66/ 15		.1	.3	.1	.8	1.2	1.2	2.0	.8	.4	.1							64	64		11
64/ 13	.1	.4	.6	.8	.7	.6	2.1	.7	1.1	.2	.2							67	67		29
62/ 11		.8	.2	1.0	.3	.6	.4	.6	.2	.1								38	38		81
60/ 9		.9	1.0	1.0	1.1	.9	.7	.4	.2									56	56		146
58/ 7		.1	.7	.3	.4	.7	.3	.2										25	25		155
56/ 5		.3	.2	.8	.2	.2	.2	.1										11	11		134
54/ 3		.3	.3	.7	.1	.3												17	17		128
52/ 1		.2	.2	.1		.2												5	5		88
50/ 49			.3	.3														5	5		66
48/ 47						.1												1	1		35
46/ 45																					17
44/ 43																					6
42/ 41																					93
40/ 39																					74
38/ 37																					3
36/ 35																					1
34/ 33																					58
32/ 31																					33
30/ 29																					21
28/ 27																					12
26/ 25																					6
Element (X)	Σ X <sup>2</sup>	Σ X				Σ X				Σ X				Σ X				Σ X			
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURKEY AT SPAIN/MADRID  
STATION NAME

68-77

YEARS

SEP  
MONTH

PAGE 1 2100-2300  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	TOTAL	TOTAL
82/ 61													.1						1	1			
80/ 79																			3	3			
78/ 77											.2								5	5			
76/ 75											.2	.1							12	12			
74/ 73											.4	.2							34	34			
72/ 71											.4	.1							46	46			
70/ 69											.1	.1							50	50			
68/ 67											.4								83	83			
66/ 65											.1								70	70	6		
64/ 63											.3								116	116	10		4
62/ 61											.1								114	114	27		5
60/ 59											.6								124	124	54		9
58/ 57											.6								81	81	110		19
56/ 55											.3								64	64	131		38
54/ 53																			30	30	126		60
52/ 51																			27	27	131		54
50/ 49																			23	23	119		86
48/ 47																			10	10	84		68
46/ 45																			4	4	50		102
44/ 43																			3	3	30		90
42/ 41																					14		102
40/ 39																					2		73
38/ 37																					3		50
36/ 35																					3		42
34/ 33																							35
32/ 31																							19
30/ 29																							15
28/ 27																							11
26/ 25																							11
24/ 23																							6
22/ 21																							1
TOTAL	.7	5.0	10.2	10.4	15.1	14.8	17.1	11.6	9.7	2.4	2.2	.7	.1						900		900		900
Element (X)	Zx'				Zx		X	%		No. Obs.	Mean No. of Hours with Temperature							Temperature					
Rel. Hum.	2913272				48846		54.3	17.079		900	≥ 67 F							≥ 80 F					Total
Dry Bulb	3519403				55973		62.2	6.529		900	≥ 73 F							≥ 93 F					
Wet Bulb	2511049				47325		52.6	5.008		900	23.4							.1					90
Dew Point	1812102				39790		44.2	7.674		900	6.3												90

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

USAF ETAC

## PSYCHROMETRIC SUMMARY

14011	STATION	TORREJON	3	SPAIN/HACKID	YEARS	68-77	SEP	MONTH
-------	---------	----------	---	--------------	-------	-------	-----	-------

PAGE 1

PAGE 1

ALL  
HOURS 11 5

[illegible]

## PSYCHROMETRIC SUMMARY

PAGE 2

SEP  
MONTH

ALL  
SILS

HOURS (L, S, T, )

[illegible]

DATA PROCESSING "KAVCH"  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURRENTIN AR SPAIN/MADRID 08-77 YEARS OCT MONTH  
PAGE 1 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
68/ 67				.1		.1	.1	.1										2	2	4					
66/ 65				.5	.2	.1	.1	.1										19	19	4					
64/ 63		.3	.5	1.3	.6	.1	.1	.1										34	34	6	2				
62/ 61		.4	1.1	1.3	.6	.1	.1	.1										47	47	11	3				
60/ 59	.1	1.2	1.4	1.2	.5	.4	.1	.1										80	80	51	25				
58/ 57	1.2	2.3	1.8	1.7	.4	.5	.3	.1										90	90	66	34				
56/ 55	1.0	2.3	1.9	2.5	1.3	.4	.3											102	102	76	61				
54/ 53	1.0	4.3	1.6	1.7	1.1	.6	.5											85	85	91	61				
52/ 51	1.2	2.3	1.5	2.2	1.5	.3	.2											142	142	74	92				
50/ 49	1.3	3.1	4.0	2.7	2.3	1.3												97	97	89	67				
48/ 47	.6	3.0	3.7	1.2	1.5	.3												78	78	122	64				
46/ 45	.6	4.5	1.3	1.4	.4													49	49	114	85				
44/ 43	.3	2.7	.5	1.4	.2	.1												39	39	77	75				
42/ 41	.2	2.3	.6	.4	.5													30	30	59	76				
40/ 39	.9	.6	1.1	.8	.5													16	16	36	70				
38/ 37	.6	.5	.5	.4	.1													10	10	24	40				
36/ 35	.1	.4	.5															4	4	16	54				
34/ 33	.2	.1	.1															2	2	12	27				
32/ 31	.1	.1																		6	17				
30/ 29																					11				
28/ 27																					12				
26/ 25																					8				
24/ 23																					3				
22/ 21																		930	930	930	930				
20/ 19	7.4	30.8	23.1	20.1	11.3	4.5	1.9	.4										930	930	930	930				
TOTAL																									

Element (X)	Z <sub>X</sub> <sup>1</sup>	Z <sub>X</sub>	X̄	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	5528710	70214	75.5	15.653	930	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2436735	47203	50.8	6.471	930			.2				93
Wet Bulb	2081038	43570	46.8	6.546	930			1.8				93
Dew Point	1768161	39769	42.8	8.527	930			12.1				93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID YEARS 68-77  
 PAGE 1 0300-0500 MONTH OCT  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63		.3	.2						.1									6	6		
62/ 61		.2	.9	.4				.1										15	15	3	
60/ 59	.1	.9	.8	1.0	.4	.1	.1											31	31	7	6
58/ 57	.5	1.8	1.9	.9	.6	.2	.2											59	59	22	12
56/ 55	2.2	3.0	1.3	.8	1.0		.1											79	79	58	33
54/ 53	.8	4.0	1.7	1.4	.6		.2											81	81	64	47
52/ 51	.5	1.9	2.7	.5	.3													56	56	66	47
50/ 49	1.4	2.7	4.1	1.2	1.1	.6												103	103	67	78
48/ 47	1.5	3.8	3.0	2.0	1.5	.4												114	114	104	57
46/ 45	1.9	4.0	1.7	1.8	.3	.1												92	92	99	75
44/ 43	.9	4.4	1.6	2.5	.4													91	91	90	72
42/ 41	.5	4.9	2.0	.6	.3													79	79	100	92
40/ 39	.2	2.4	1.8	.2														43	43	88	76
38/ 37		2.2	1.7	.3	.1													40	40	58	72
36/ 35		.6	.9	.2														16	16	42	72
34/ 33		.4	.8	.1														12	12	25	35
32/ 31		.3	.2															5	5	15	54
30/ 29		.3	.3															6	6	14	31
28/ 27	.1																	1	1	6	31
26/ 25	.1																	1	1	2	13
24/ 23																					14
22/ 21																					7
20/ 19																					6
TOTAL	10.338	227.81	4.0	5.9	1.5	.6	.1	.1										930	930	930	930

Mean No. of Hours with Temperature

Element (X)	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Σx	Σx <sup>2</sup>	Total
Rel. Hum.	6007326		73570		79.1		14.202		930		930		32 F		1.3		80 F		93 F		93
Dry Bulb	2188903		44669		48.0		6.835		930		930		32 F		3.7		80 F		93 F		93
Wet Bulb	1922751		41797		44.9		6.903		930		930		32 F		15.6		80 F		93 F		93
Dew Point	1668412		38588		41.5		8.511		930		930		32 F				80 F		93 F		93



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14011 STATION TURREJUN AB SPAIN/MADRID 68-77 YEARS PAGE 1 0600-0800 OCT MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
65/ 67							.2											2	2		
66/ 65																		2	2		
64/ 63		.1	.3	.1	.1	.1												7	7		
62/ 61		.1	1.0	.3	.1	.4		.1										20	20	1	
60/ 59		1.0	1.1	.6	.3	.1	.2											29	29	9	1
58/ 57	.3	2.7	1.3	.9	.5	.3												58	58	31	11
56/ 55	1.2	4.4	1.3	1.1	1.4	.3	.2											92	93	59	33
54/ 53	.8	3.7	1.6	1.2	.6	.8	.3											84	84	70	57
52/ 51	1.1	1.9	2.6	1.3	.8	.3												73	73	65	65
50/ 49	1.2	3.9	4.0	1.4	.9	.2												107	107	74	73
48/ 47	1.4	2.9	4.3	1.1	.6	.4												100	100	108	64
46/ 45	1.5	3.9	2.7	1.6	.6													97	97	99	76
44/ 43	.4	3.7	1.6	1.3	.4													69	69	98	77
42/ 41	.4	3.2	1.6	.2	.3													54	54	80	65
40/ 39	.3	2.6	1.4	.6														46	46	69	77
38/ 37	.2	2.5	1.6	.6	.1													47	47	62	76
36/ 35	.1	.9	.4	.1														14	14	39	72
34/ 33		.5	.6															11	11	30	38
32/ 31	.1	.4	.4															9	9	14	54
30/ 29		.3	.2															5	5	14	33
28/ 27	.1	.1																2	2	4	18
26/ 25																		1	1	2	19
24/ 23		.1																		1	12
22/ 21																					5
20/ 19																					3
TOTAL	9.1	88.8	28.1	12.7	7.1	2.9	1.0	.3										929	930	929	929

Mean No. of Hours with Temperature

Element (X)	Zx'	Zx	X̄	σ <sub>x</sub>	No. Obs.	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5996550	73444	79.1	14.3	929							93
Dry Bulb	2234074	45088	46.5	7.1	930		1.7	.2				93
Wet Bulb	1952208	42066	45.3	7.0	929		3.5					93
Dew Point	1094709	38905	41.9	6.3	929		14.4					93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID 68-77 YEARS MONTH OCT  
PAGE 1 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
78/ 77									.1	.1	.1	.2	.1					6	6		
76/ 75							.2	.1		.2	.3	.1						6	6		
74/ 73						.3	.2		.4	.3	.3							15	15		
72/ 71					.1	.5	.6		.1	.1								17	17		
70/ 69			.1	.1	.4	.2		.3	.5	.4								20	20		
68/ 67			.3	.3	.5	1.6	1.3	.9	.5	.1								49	49		1
66/ 65			.2	.9	1.7	2.4	.9	.9	.5	.1								70	70		1
64/ 63			.3	3.0	1.4	1.8	2.2	.3	.4									89	89		10
62/ 61	.1	.4	2.6	2.0	2.0	1.0	1.0	.5	.1									91	91		2
60/ 59		1.6	2.3	2.6	2.4	2.6	.9	.5										121	121		45
58/ 57	.1	1.3	2.0	2.5	2.2	1.1	.8	.4										101	102		33
56/ 55	.8	1.6	1.9	1.4	2.2	1.9	.4	.1										96	96		59
54/ 53	.2	1.2	2.2	2.0	2.2	.6	.8	.1										86	86		84
52/ 51	.1	.8	1.7	1.1	.8	.4	.2											47	47		70
50/ 49		.5	1.6	1.4	.2	.8	.2											44	44		92
48/ 47		.5	2.2	.3	.8	.3												38	38		82
46/ 45		.8	.3	.4	.2													16	16		78
44/ 43		.1	.4	.3	.2													10	10		80
42/ 41		.1	.2	.2														5	5		19
40/ 39				.1														1	1		25
38/ 37			.1															1	1		9
36/ 35																					1
34/ 33																				2	2
32/ 31																					26
30/ 29																					14
28/ 27																					18
26/ 25																					16
24/ 23																					7
TOTAL	1.3	9.5	18.7	16.1	17.2	16.1	9.6	4.2	2.8	1.4	.5	.3	.1					929	930	929	929

Element (X)	ZX <sup>2</sup>	ZX	X̄	S <sup>2</sup> <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					93 F	Total
Rel. Hum.	3951593	58573	63.0	16.693	929	≤ 32 F	≥ 33 F	≥ 34 F	≥ 35 F	≥ 36 F	93 F	93
Dry Bulb	3249727	54605	58.7	6.850	930						2.7	93
Wet Bulb	2499450	47902	51.6	5.636	929						.1	93
Dew Point	1954185	42001	45.2	7.718	929	6.1						93

Mean No. of Hours with Temperature

Element (X)	Z X <sup>2</sup>	Z X	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F
Rel. Hum.	3951593	58573	63.0	6.693	929						
Dry Bulb	3249727	54605	58.7	6.850	930			11.3	2.7		
Wet Bulb	2499450	47902	51.6	5.636	929			.1			
Dew Point	1954185	42001	45.2	7.718	929		6.1				

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS PAGE 1 1200-1400 OCT MONTH  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Wet Bulb	Dew Point
86/ 85											.2	.2	.1	.3	.1	.1		4	4	
84/ 83											.3	.3	.2	.5	.1	.1		12	12	
82/ 81								.2	.3	.1	.5	.6	.2	.5	.1			21	21	
80/ 79								.5	.3	.4	.5	.2	.4	.2				19	19	
78/ 77							.1	.6	.3	.4	.5	.6	.4					28	28	
76/ 75							.6	.5	1.1	.9	1.5	.3						41	41	
74/ 73					.1	.2	.9	1.7	1.6	.8	.4	.2						41	41	
72/ 71					.9	.9	1.9	1.7	.5	.9	.3							59	59	
70/ 69					1.0	1.0	2.7	1.6	1.9	.9	.2							86	86	
68/ 67				.2	2.6	3.2	2.9	1.6	1.6	.8	.2							122	122	
66/ 65			.5	1.1	2.2	2.9	1.9	1.7	.3	.3	.1							103	103	13
64/ 63		.3	.9	1.4	2.0	2.5	2.0	.6	.5									96	96	24
62/ 61	.1	.6	1.0	1.2	1.7	1.3	1.4	1.0	.8	.3								81	81	53
60/ 59		.6	1.1	.8	1.2	.5	1.4	.4	.6									62	62	120
58/ 57		.2	.5	.5	1.0	1.0	.3	.8	.3									51	51	149
56/ 55	.4	1.0	.3	.4	1.5	.5	.2	.9										49	49	156
54/ 53	.1	.1	1.0	.4	.6	.2	.3	.2										28	28	83
52/ 51	.1	.2	.2	.2	.2	.6	.1											19	19	93
50/ 49	.1	.2	.3	.3	.2	.6												7	7	62
48/ 47		.1																1	1	62
46/ 45																				31
44/ 43																				21
42/ 41																				16
40/ 39																				1
38/ 37																				60
36/ 35																				29
34/ 33																				23
32/ 31																				17
30/ 29																				13
28/ 27																				16
26/ 25																				13
24/ 23	.9	2.8	5.8	6.7	14.1	15.7	16.7	11.8	10.3	5.8	4.2	2.4	1.2	1.1	.4	.2		930	930	930
TOTAL																				
Element (X)	ΣX <sup>2</sup>	ΣX	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature											Σ 80 F	Σ 93 F	Total	
Rel. Hum.	2612200	46698	50.2	16.964	930												4.1		93	
Dry Bulb	4092706	61310	65.9	7.399	930												16.6	43.3	93	
Wet Bulb	2795116	50766	54.6	5.077	930														93	
Dew Point	1970798	42192	45.4	7.808	930												6.4		93	

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 08-77 YEARS MONTH OCT

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
86/ 85										.1	.1	.1	.2	.2	.1	.2	.3	10	10						
84/ 83										.1	.1	.5	.2	.2	.2	.4		17	17						
82/ 81										.6	.5	.9	.6	.6	.3			28	28						
80/ 79									.4	.3	.5	.4	.6	.2				24	24						
78/ 77								.1	.1	.6	1.0	1.2	.5	.1	.1			34	34						
76/ 75							.2	.1	.6	1.0	1.2	.5	.1					35	35						
74/ 73					.1	.6	1.0	.3	2.2	.5	1.5	.4	.1					62	62						
72/ 71					.5	1.2	1.4	1.5	1.4	.9	.8		.1					64	64						
70/ 69					.2	1.2	1.5	1.9	1.5	.8	.3	.2						73	73		1				
68/ 67					.3	1.8	1.1	2.7	1.5	.8	.1							94	94		3				
66/ 65		.3	1.0	.1	.7	1.8	1.5	2.3	1.0	.5		.2						93	93		28				
64/ 63		.6	.4	.9	.6	1.6	1.8	.6	.6	.1	.2							93	93		52				
62/ 61	.1	.2	.9	.6	1.0	1.3	1.4	1.1	1.0	.2	.1							78	78		13				
60/ 59	.1	.4	.5	.9	.8	1.0	.2	.3	.3									72	72		104				
58/ 57	.1	.6	.2	.8	1.1	.6	.1	.3										51	51		25				
56/ 55	.1	.4	.8	.6	.9	.3	.1	.5										36	36		49				
54/ 53	.1	.4	.2	.2	.6	.1	.1											34	34		71				
52/ 51	.1	.1	.1	.1	.1	.1	.1											16	16		51				
50/ 49	.2	.4	.1	.1	.1	.1	.1											6	6		88				
48/ 47	.2	.4	.1	.1	.1	.1	.1											8	8		82				
46/ 45	.2	.4	.1	.1	.1	.1	.1											2	2		87				
44/ 43	.2	.4	.1	.1	.1	.1	.1														87				
42/ 41	.2	.4	.1	.1	.1	.1	.1														82				
40/ 39	.2	.4	.1	.1	.1	.1	.1														76				
38/ 37	.2	.4	.1	.1	.1	.1	.1														59				
36/ 35	.2	.4	.1	.1	.1	.1	.1														51				
34/ 33	.2	.4	.1	.1	.1	.1	.1														23				
32/ 31	.2	.4	.1	.1	.1	.1	.1														30				
30/ 29	.2	.4	.1	.1	.1	.1	.1														14				
28/ 27	.2	.4	.1	.1	.1	.1	.1														8				
26/ 25	.2	.4	.1	.1	.1	.1	.1														10				
24/ 23	.2	.4	.1	.1	.1	.1	.1														17				
22/ 21	.2	.4	.1	.1	.1	.1	.1														4				
20/ 19	.2	.4	.1	.1	.1	.1	.1														2				
Element (X)	Σ X'		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X				
Rel. Hum.																									
Dry Bulb																									
Wet Bulb																									
Dew Point																									
Mean No. of Hours with Temperature																					≥ 80 F		≥ 93 F		Total



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS

1800-2000 HOURS (L. S. T.)

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
80/ 79								.1	.1	.1	.1			.1				5	5		
78/ 77									.1	.1	.1							2	2		
76/ 75									.1	.3	.1	.2						7	7		
74/ 73							.3		.2	.1	.4							10	10		
72/ 71					.1	.3	.3	.5	.3	.3	.5	.1						24	24		
70/ 69					.5	.5	.5	.4	.2	.2	.3							21	21		
68/ 67			.5	.2	1.0	.9	1.6	1.1	.6	1.1	.2							62	62		1
66/ 65				.8	1.0	1.1	1.2	.9	.5	.5	.1							61	61		4
64/ 63		.1	1.0	1.9	1.3	.6	1.4	.8	.6									72	72		
62/ 61		.5	1.9	2.2	2.2	2.3	1.3	1.2	.2									109	109		
60/ 59	.3	.8	1.1	1.5	1.4	1.3	1.3	.8	.1									79	79		7
58/ 57	.5	2.7	1.8	1.5	1.5	1.4	1.1	.5	.1	.1								105	105		29
56/ 55		1.6	2.4	2.8	2.2	1.2	1.0	.2	.4									109	109		54
54/ 53	.1	2.7	3.1	1.4	.6	1.0	.6	.1										90	90		62
52/ 51	.1	1.0	1.9	1.2	.9	.9	.4	.1										60	60		64
50/ 49	.1	.4	3.4	.5	.4	.4	.1											51	51		102
48/ 47	.1	.5	1.2	.3	.1	.3	.1											25	25		85
46/ 45		1.0		.6	.3	.3												21	21		81
44/ 43		.1	.2	.1	.3													7	7		89
42/ 41			.3	.1	.2													6	6		69
40/ 39			.2															2	2		53
38/ 37			.1															1	1		43
36/ 35				.1														1	1		55
34/ 33																					38
32/ 31																					42
30/ 29																					15
28/ 27																					13
26/ 25																					7
24/ 23																					13
22/ 21																					6
20/ 19																					1
18/ 17																					2
TOTAL	1.31	1.41	19.21	5.31	4.01	1.91	1.3	6.7	3.8	2.8	1.9	.3		.1				930	930		930
Element (X)	ΣX <sup>1</sup>	ΣX <sup>2</sup>	ΣX <sup>3</sup>	ΣX <sup>4</sup>	ΣX <sup>5</sup>	ΣX <sup>6</sup>	ΣX <sup>7</sup>	ΣX <sup>8</sup>	ΣX <sup>9</sup>	No. Obs.	Mean No. of Hours with Temperature							Total			
Rel. Hum.	3842235	57117	61.4	18.971	930													Σ 80 F	Σ 93 F		
Dry Bulb	3241084	54510	58.6	7.044	930																93
Wet Bulb	2446840	47416	51.0	5.620	930																93
Dew Point	1867714	40938	44.0	8.406	930																93

Mean No. of Hours with Temperature

Element (X)	2 X	X	No. Obs.	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Rel. Hum.	3842235	57117	61.418.971							
Dry Bulb	3241084	54510	58.67.044							
Wet Bulb	2446840	47416	51.05.620							
Dew Point	1867714	40938	44.08.406							



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID YEARS 68-77 MONTH OCT  
PAGE 1 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31				
72/ 71					.1		.1	.2	.1									1	1		
70/ 69					.1		.2	.2	.2									5	5		
68/ 67				.1	.2		.2	.2	.2	.2								11	11		
66/ 65				.8	.1		.4	.2	.1									15	15		
64/ 63		.2	.4	.6	.6	.6	1.2	.4	.2	.2	.1							38	38	2	
62/ 61		.4	1.7	.9	1.1	1.1	.8	.2	.8	.1								55	55	6	
60/ 59	.1	1.8	1.9	1.4	1.8	1.8	.4	.5	.8									82	82	22	8
58/ 57	1.2	2.2	1.5	1.6	2.2	2.2	1.0	.6	.3									98	98	57	30
56/ 55	.3	3.0	2.4	1.3	1.9	1.9	1.4	.9	.3									107	108	66	43
54/ 53	.6	3.1	4.1	2.5	2.0	2.0	1.5	.2	.3									134	134	93	57
52/ 51	.3	1.4	3.3	.6	1.3	1.3	.8	.3										75	75	96	50
50/ 49	.3	2.4	3.8	1.7	1.9	1.9	.8											101	101	103	80
48/ 47	.3	1.8	2.8	.6	.9	.9	.4	.1										65	65	118	74
46/ 45	.1	3.3	.4	1.2	.4	.2												53	53	121	80
44/ 43		1.9	.3	.9	.8													36	36	87	90
42/ 41		1.0	.8	.5	.9													29	29	59	93
40/ 39		.2	.5	.1	.3													11	11	39	67
38/ 37		.3		.5														8	8	21	43
36/ 35		.4																4	4	19	52
34/ 33		.1																1	1	13	42
32/ 31																				5	39
30/ 29																					30
28/ 27																					19
26/ 25																					6
24/ 23																					18
22/ 21																					7
20/ 19																					1
TOTAL	3.3	23.7	24.0	15.4	16.7	9.0	3.4	3.3	.8	.3								929	930	929	929
Element (X)																		Mean No. of Hours with Temperature			
Rel. Hum.	4648	325			65143	70.1	17.3	82		929								≥ 80 F	≥ 73 F	≥ 93 F	Total
Dry Bulb	2690	913			49665	53.4	6.4	49		930									1.7		93
Wet Bulb	2196	667			44815	48.2	6.1	23		929									.5		93
Dew Point	1791	663			40025	43.1	8.5	11		929									12.0		93

USAF ETAC

FORM 0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AR SPAIN/MADRID  
STATION NAME

68-77  
YEARS

OCT  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
86/ 85										.0	.0	.0	.0	.1	.0	.0	.0	14	14			
84/ 83										.0	.1	.2	.0	.0	.1	.1	.0	29	29			
82/ 81									.0	.1	.1	.1	.0	.1	.1	.1	.0	49	49			
80/ 79									.0	.1	.1	.1	.1	.1	.1	.1	.0	48	48			
78/ 77								.0	.1	.1	.1	.2	.3	.1	.0	.0	.0	70	70			
76/ 75								.1	.0	.2	.3	.3	.1	.0			.0	89	89			
74/ 73							.1	.3	.1	.6	.2	.3	.1	.0			.0	128	128			
72/ 71							.3	.5	.3	.3	.3	.2	.0	.0			.0	165	165			
70/ 69			.0	.0	.1	.3	.6	.6	.5	.3	.3	.1	.0	.0			.0	205	205			
68/ 67				.1	.8	1.0	.9	.8	.6	.4	.4	.1	.0				.0	342	342	2		
66/ 65			.2	.5	.8	1.1	.7	.7	.3	.2	.0	.0					.0	348	348	18	1	
64/ 63		.2	.6	1.2	.9	1.1	1.0	.4	.3	.0	.0	.0					.0	420	420	68		
62/ 61	.0	.3	1.3	1.1	1.1	.9	.7	.6	.2	.1	.0	.0					.0	483	483	170	8	
60/ 59	.1	1.0	1.3	1.2	1.1	.9	.7	.5	.2	.0							.0	523	523	369	53	
58/ 57	.5	1.9	1.4	1.3	1.2	.9	.5	.3	.1	.0							.0	603	604	649	191	
56/ 55	.7	2.2	1.5	1.4	1.4	.8	.4	.2	.1								.0	658	660	775	371	
54/ 53	.4	2.4	2.0	1.4	1.1	.6	.4	.2									.0	639	639	809	522	
52/ 51	.4	1.2	1.8	1.0	.8	.4	.2	.0									.0	431	431	752	482	
50/ 49	.6	1.7	2.7	1.1	.9	.5	.1										.0	561	561	688	708	
48/ 47	.5	1.6	2.1	.7	.7	.3	.0										.0	448	448	735	613	
46/ 45	.5	2.2	.8	.9	.3	.1											.0	359	359	670	616	
44/ 43	.2	1.6	.6	.8	.3	.0											.0	262	262	526	657	
42/ 41	.1	1.4	.7	.3	.3												.0	212	212	387	641	
40/ 39	.1	.8	.6	.2	.1												.0	133	133	302	570	
38/ 37	.0	.7	.5	.2	.0												.0	113	113	201	474	
36/ 35	.0	.3	.2	.1													.0	45	45	133	401	
34/ 33		.2	.2	.0													.0	28	28	87	279	
32/ 31	.0	.1	.1														.0	14	14	47	293	
30/ 29	.0	.1	.1														.0	13	13	34	181	
28/ 27	.0	.0	.0														.0	3	3	10	138	
26/ 25	.0																.0	1	1	4	86	
24/ 23		.0															.0	1	1	1	97	
22/ 21																	.0				37	
20/ 19																	.0				16	
Element (X)	ΣX'		ΣX		X		°X		No. Obs.		Mean No. of Hours with Temperature										Total	
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																						
Wet Bulb																						
Dew Point																						

## PSYCHROMETRIC SUMMARY

68-77

**YEARS**

**PAGE 2**

**MONTH**  
**067**

**ALL**

HOURS (L. S. T.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 14011 TORREJON AB SPAIN/MADRID 68-77 YEARS MONTH NOV  
PAGE 1 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63							.1											1	1		
60/ 59							.2											5	5		
58/ 57		.1	.1	.2	.3													7	7		
56/ 55		.8	1.1	.3														20	20	2	
54/ 53	.3	1.6	1.2	.8	.2		.1											35	35	22	5
52/ 51	.8	1.6	1.4	1.0	.3		.1											43	43	27	13
50/ 49	.4	3.3	1.9	.9	.4		.1											87	87	42	43
48/ 47	.4	3.3	1.9	.9	.4		.1											64	64	67	38
46/ 45	1.0	6.8	1.7	1.1	.6		.1											101	101	79	62
44/ 43	.9	4.6	1.8	.8	.6		.1											78	78	94	70
42/ 41	.4	4.9	2.4	.4	.3													73	73	76	70
40/ 39	.4	5.0	1.7	.2	.2													68	68	75	66
38/ 37	.7	5.2	3.1	.4														85	85	96	68
36/ 35	.8	4.4	2.9	.3														76	76	71	92
34/ 33		2.7	1.4	.3	.3													43	43	80	68
32/ 31	.2	5.1	1.2	.3														62	62	52	64
30/ 29	.3	2.6	.1															27	27	64	70
28/ 27	.4	1.6	.1															19	19	32	59
26/ 25	.1	.2																3	3	17	45
24/ 23		.2																2	2	2	29
22/ 21																				1	21
20/ 19																					6
18/ 17																					2
16/ 15																					5
14/ 13																					1
12/ 11																					1
10/ 9																					1
TOTAL	6.5	54.5	25.7	8.5	3.3	.9	.7											899	899	899	899

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID 68-77 YEARS MONTH NOV

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point				
62/ 61						.1	.1											1	1					
60/ 59																		1	1					
58/ 57				.2														2	18					
56/ 55		.7	1.0	.3														18	29	12				
54/ 53	.1	1.4	1.1	.2		.1	.1											29	28	27				
52/ 51	.2	1.0	1.2	.3														28	64	32				
50/ 49	.4	3.3	2.2	.9		.1	.1											64	64	59				
48/ 47	.6	4.1	1.8	.3		.2	.2											66	66	63				
46/ 45	.7	5.5	1.2	1.1		.2	.2											80	77	87				
44/ 43	.6	5.1	1.8	.9		.1	.1											77	72	74				
42/ 41	.6	4.8	2.0	.4		.2	.2											72	73	74				
40/ 39	1.3	3.8	2.3	.3		.3	.3											88	88	73				
38/ 37	1.2	6.2	1.9	.4														92	82	87				
36/ 35	.6	6.8	1.4	.2		.1	.1											52	52	93				
34/ 33	.9	3.1	1.6	.1		.1	.1											58	58	49				
32/ 31	.3	4.8	.9	.4														45	45	79				
30/ 29	.7	3.8	.6															36	36	51				
28/ 27	1.7	2.1	.2															16	16	24				
26/ 25	.4	1.3																10	10	16				
24/ 23	.6	.6																1	1	1				
22/ 21	.1																							
20/ 19																								
18/ 17																								
16/ 15																								
14/ 13																								
10/ 9																								
TOTAL	10.9	58.4	21.2	6.3	1.9	.9	.3											899	899	899				
Element (X)		Zx'	Zx																					
Rel. Hum.		6252636	74188																	Total				
Dry Bulb		1509699	36185																	90				
Wet Bulb		1349598	34212																	90				
Dew Point		1168528	31552																	90				

Element (X)	Zx'	Zx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Rel. Hum.	6252636	74188	82.5	12.052	899							
Dry Bulb	1509699	26185	40.3	7.700	899		16.6					90
Wet Bulb	1349598	34212	38.1	7.284	899		22.0					90
Dew Point	1168528	31552	35.1	8.252	899		35.2					90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID 68-77 YEARS NDV MONTH

PAGE 1 0600-0800  
HOURS (L. S. F.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
66/ 65									.1									1	1		
58/ 57							.2											2	2		
56/ 55		.6	.6	.4														14	14	4	
54/ 53	.6	1.0	1.2	.3	.2													30	30	9	
52/ 51	.2	.6	2.0	.7	.1													32	32	21	7
50/ 49	.4	4.0	2.1	.9	.3	.1												71	71	32	27
48/ 47	.6	4.4	2.1	.3	.2													69	69	71	37
46/ 45	1.0	5.3	.6	1.3	.6	.2												81	81	67	65
44/ 43	.6	5.3	1.1	.8	.6													75	75	85	58
42/ 41	.6	3.9	1.6	.7														60	60	62	61
40/ 39	1.8	3.7	2.2	.8														76	76	80	80
38/ 37	1.1	5.1	1.6	.4	.2													76	76	75	61
36/ 35	.8	5.8	.7	.2														67	67	83	60
34/ 33	.4	5.7	1.6	.1														70	70	81	75
32/ 31	.2	5.1	.8	.4														59	59	59	81
30/ 29	1.1	3.9	.4	.1														50	50	63	66
28/ 27	1.7	1.9																32	32	55	52
26/ 25	.4	2.0																22	22	32	64
24/ 23	.4	.7																10	10	17	39
22/ 21	.2	.1																3	3	3	34
20/ 19																				1	12
18/ 17																					9
16/ 15	12.1	59.0	18.4	7.6	2.2	.6			.1									900	900	900	3
TOTAL																					900
Element (X)	Z <sub>X</sub> <sup>2</sup>	Z <sub>X</sub>	X̄	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature												TOTAL			
Rel. Hum.	6356311	74887	83.2	11.798	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	1504158	36102	40.1	7.892	900		17.6					90									
Wet Bulb	1350428	34212	38.0	7.451	900		23.0					90									
Dew Point	1174451	31667	35.2	8.320	900		36.0					90									

Mean No. of Hours with Temperature

No. Obs.

$\sigma_x$

$\bar{x}$

$2x$

$2x^2$

Element (X)

Rel. Hum.	74887	83.2	1.798	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	36102	40.1	7.892	900		17.6					90
Wet Bulb	34212	38.0	7.451	900		23.0					90
Dew Point	31667	35.2	8.320	900		36.0					90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/MADRID 65-77 YEARS MONTH NOV

PAGE 1 0900-1100 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
70/ 69										.1								1	1		
68/ 67										.1								1	1		
66/ 65										.1								2	2		
64/ 63										.1								4	4		
62/ 61				.1						.1								12	12		
60/ 59			.2	.2	.7					.1								17	17		
58/ 57		.2	.4	.1	1.0					.2								34	34	5	1
56/ 55		1.0	1.4	2.2	1.3	.6				.3								63	63	9	13
54/ 53	.3	.9	3.1	2.7	1.0	.6	.1			.1								78	78	18	20
52/ 51	.3	1.1	2.6	1.8	1.6	.3	.4			.4								73	73	51	22
50/ 49	.2	3.1	5.6	1.4	1.1	.4				.1								107	107	93	64
48/ 47	.7	3.6	3.9	2.4	1.4	1.0	.1			.1								119	119	118	88
46/ 45	.9	4.9	2.7	1.2	1.2		.1											99	99	117	89
44/ 43	.8	2.8	2.3	1.9	.7	.1												77	77	112	107
42/ 41	.1	4.0	2.7	1.7	.3													79	79	97	92
40/ 39	.6	1.8	2.0	.9	.3	.1												51	51	79	69
38/ 37		1.3	1.4	.3	.1													29	29	74	80
36/ 35	.1	1.1	1.3	.2	.1													26	26	54	61
34/ 33		.9	.6	.1														14	14	23	45
32/ 31		.4	.3															7	7	26	46
30/ 29	.1	.3																4	4	18	39
28/ 27		.1																1	1	4	29
26/ 25																					18
24/ 23																					3
22/ 21																					7
20/ 19																					2
18/ 17																					2
16/ 15																					1
12/ 11																					898
TOTAL	4.127	630.7	18.8	10.9	4.1	2.1	.9	.2	.4									898	898	398	

Mean No. of Hours with Temperature

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	S <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature	Σ X <sup>2</sup>	Σ X	Total
Rel. Hum.	4974559	65389	72.8	15.420	898	≥ 32 F	1.2	1.2	90
Dry Bulb	2063495	42631	47.5	6.650	898	≥ 67 F	.2	.2	90
Wet Bulb	1712687	38863	43.3	5.860	898	≥ 73 F			90
Dew Point	1385249	34631	38.6	7.445	898	≥ 80 F			90



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AR SPAIN/MADRID 68-77 YEARS PAGE 1 1200-1400 MONTH NOV HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
74/ 73													.2	.3				5	5		
72/ 71									.1	.1			.1					3	3		
70/ 69					.1	.1	.3	.2	.3	.1	.3	.4						14	14		
68/ 67					.4	.8	.7	.6	.2	.1	.1							15	15		
66/ 65				.2	.2	.7	.8	.8	.2									24	24		
64/ 63				.2	.7	1.9	1.2	1.0	.2									43	43		
62/ 61			.2	.3	2.1	2.3	1.2	.8										66	66	1	
60/ 59			.2	.3	2.1	2.1	1.1	.2										55	55	8	
58/ 57		.7	1.6	1.8	2.7	2.0	1.0	.1	.2									90	90	9	
56/ 55		.8	1.3	2.8	2.8	2.0	1.8	.9										111	111	44	11
54/ 53		.7	2.9	2.7	3.7	2.4	1.3	.3										126	126	76	11
52/ 51	.1	1.0	1.8	1.7	3.6	1.3	.4	.2	.1									92	92	119	26
50/ 49	.1	2.4	3.7	1.9	2.2	1.7	.9	.1										117	117	132	56
48/ 47	.6	1.0	1.2	1.1	2.2	.7												61	61	131	79
46/ 45	.2	1.1	.8	1.2	1.0	.2												41	41	115	95
44/ 43	.1	.7	.1	.6	.2	.2												17	17	101	98
42/ 41	.1	.3	.1	.1	.3	.2												10	10	70	87
40/ 39		.6	.1	.1	.1													8	8	46	73
38/ 37																		1	1	35	70
36/ 35			.1															1	1	2	69
34/ 33																				9	69
32/ 31																				2	53
30/ 29																					33
28/ 27																					28
26/ 25																					16
24/ 23																					9
22/ 21																					6
20/ 19																					5
18/ 17																					3
16/ 15																					2
14/ 13																					1
TOTAL	1.2	9.3	14.1	15.2	24.4	18.0	9.6	4.8	1.4	.3	.4	.8	.3					900	900	900	900

Element (X)	ΣX <sup>2</sup>	ΣX	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total	
Rel. Hum.	3469784	53800	59.8	16.800	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb	2720277	49147	54.6	6.369	900			3.7			90		
Wet Bulb	2032296	42522	47.2	5.088	900			.2			90		
Dew Point	1479952	35858	39.8	7.553	900		15.6				90		

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 80 F	≥ 93 F	
Rel. Hum.	3469784	53800	59.8	16.800	900						
Dry Bulb	2720277	49147	54.6	6.369	900			3.7			90
Wet Bulb	2032296	42522	47.2	5.088	900			.2			90
Dew Point	1479952	35858	39.8	7.553	900			15.6			90



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AR SPAIN/MADRID  
STATION NAME

68-77

YEARS

NOV  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
76/ 75														.1	.2			3	3		
74/ 73												.1	.7					7	7		
72/ 71						.1	.1	.1	.1	.1								3	3		
70/ 69						.7	.7	.4	.6	.1	.1	.3						5	5		
68/ 67					.1	.2	.7	.7	.1									22	22		
66/ 65						.6	1.0	.7	.1									24	24		
64/ 63				.1	.7	1.3	1.4	1.1	.3									44	44		
62/ 61				.7	1.0	1.6	1.1	1.6	.1									54	54		
60/ 59			.4	.8	2.4	2.0	2.1	.4										74	74	4	
58/ 57		.4	1.2	1.9	2.1	1.7	.8	.4	.1									78	78	11	
56/ 55	.2	.9	1.4	2.8	3.0	2.4	1.1	1.0	.1									117	117	38	6
54/ 53	.2	.8	2.6	2.6	2.4	2.1	.8	.4										107	107	70	12
52/ 51	.1	1.6	2.0	2.2	2.0	.4	.4	.1										80	80	111	32
50/ 49	.1	2.0	3.1	1.9	2.1	1.9	.3	.1										104	104	142	42
48/ 47	.1	.8	2.4	1.2	2.2	.2	.1											64	64	131	69
46/ 45	.3	.9	1.1	1.6	1.7	.2												52	52	120	90
44/ 43		.8	.7	.8	.6													25	25	88	87
42/ 41		.3	1.2	.3	.7	.4												27	27	75	110
40/ 39		.3	.2		.1	.1												7	7	50	88
38/ 37			.1		.1													2	2	36	74
36/ 35				.1														1	1	12	62
34/ 33																				6	64
32/ 31																				4	37
30/ 29																				2	38
28/ 27																					32
26/ 25																					23
24/ 23																					17
22/ 21																					6
20/ 19																					4
18/ 17																					2
16/ 15																					1
14/ 13																					4
TOTAL	1.1	8.8	16.6	16.9	21.3	15.9	9.4	6.4	1.7	.2	.2	.4	.8	.2				900	900	900	900

Element (X)	ΣX <sup>2</sup>	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature				Total		
Rel. Hum.	3476024	53744	59.7	17.223	900	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2693762	48858	34.3	6.788	900			4.0	1.0			90
Wet Bulb	2006095	42229	46.9	5.238	900			.6				90
Dew Point	1451485	35477	39.4	7.680	900			16.4				90

Mean No. of Hours with Temperature

No. Obs.

Σ X

Σ X<sup>2</sup>

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

Σ X<sup>2</sup>

Σ X

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/MADRID YEARS 68-77 MONTH NOV  
PAGE 1 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
68/ 67								.1	.1									1	1					
66/ 65								.1	.1									2	2					
64/ 63								.1	.1									4	4					
62/ 61								.2	.2	.2								9	9					
60/ 59		.1	.2	.4	.1	.3	.1	.1	.2									12	12					
58/ 57		.4	.4	1.0	.2	.6		.1	.2									27	27		1			
56/ 55		1.2	1.3	1.7	.2	.7	.3	.1										50	50		11			
54/ 53	.1	1.6	2.1	2.3	.6	.8	.1	.4										72	72		30			
52/ 51	.2	2.4	4.1	1.9	.9	.3	.1											90	90		42			
50/ 49	.2	4.7	6.0	2.4	1.1	.6	.3	.1										139	139		95			
48/ 47	.2	2.0	5.1	2.9	1.2	.3												106	106		56			
46/ 45	.2	4.3	2.4	1.8	.6													84	84		72			
44/ 43	.3	4.4	2.8	2.3	.7	.1												96	96		77			
42/ 41		2.6	3.4	1.1	.6	.1												70	70		77			
40/ 39		1.6	2.4	1.9	.2													55	55		90			
38/ 37	.1	1.6	1.8	.8	.1													39	39		94			
36/ 35	.2	1.2	.8	.2														22	22		74			
34/ 33		.8	.4	.3														14	14		50			
32/ 31		.3	.1	.2														6	6		86			
30/ 29		.2																2	2		38			
28/ 27																					25			
26/ 25																					31			
24/ 23																					23			
22/ 21																					4			
20/ 19																					3			
18/ 17																					7			
16/ 15																					1			
14/ 13																					1			
TOTAL	1.729	4.33	6.21	.3	6.7	4.0	1.4	1.1	.6	.2								900	900	900	900			
Element (X)																			Mean No. of Hours with Temperature				Total	
Rel. Hum.	4970	799		655	79		72	91	4.62	7	900							≥ 80 F	≥ 93 F					
Dry Bulb	2043	943		425	09		47	2	6.34	1	900										90			
Wet Bulb	1704	080		388	04		43	1	5.87	4	900										90			
Dew Point	1380	711		345	71		38	4	7.66	1	900										90			

Element (X)	Z <sub>X</sub>	Z <sub>X</sub>	X̄	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	4970799	65579	72.9	14.627	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2043943	42509	47.2	6.341	900			.8			90
Wet Bulb	1704080	38804	43.1	5.874	900		3.4				90
Dew Point	1380711	34571	38.4	7.661	900		21.9				90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TURREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

NOV  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
62/ 61					.1	.1	.2											3	3		
60/ 59		.1		.2	.2	.1	.2											8	8		
58/ 57		.1	.7	.9	.3	.2	.1	.1										8	8	1	
56/ 55	.2	.7	.9	.3	.2	.2	.1											24	24	3	
54/ 53	.1	1.2	1.3	.8	.2	.2	.1	.1										36	36	13	
52/ 51	.1	2.0	2.2	.2	.2	.2	.1											44	44	24	
50/ 49	.4	4.2	3.9	1.1	.6	.1	.6											98	98	61	
48/ 47	.1	3.8	3.1	1.0	.4	.4												80	80	46	
46/ 45	.9	6.0	3.0	1.2	.4	.3												107	107	87	
44/ 43	.2	4.9	3.3	1.8	.4	.2												98	98	85	
42/ 41		6.8	3.7	.8	.2													103	103	106	
40/ 39	.1	3.7	4.8	.8	.1													85	85	94	
38/ 37	.1	3.7	2.7	.6														63	63	90	
36/ 35	.2	2.9	2.1	.2														49	49	86	
34/ 33	.3	2.9	1.0	.4	.2													44	44	57	
32/ 31	.1	2.1	1.2	.1														32	32	52	
30/ 29		.8	.8	.1														15	15	35	
28/ 27		.2	.1															3	3	19	
26/ 25																				5	
24/ 23																				2	
22/ 21																					
20/ 19																					
18/ 17																					
16/ 15																					
14/ 13																					
12/ 11																					
TOTAL	3.0	46.0	34.1	9.7	3.4	2.3	1.2	.2										900	900	900	

Mean No. of Hours with Temperature

No. Obs.

°x

X

2x

2x²

Element (X)

Rel. Hum.	70189	78.0	13.4	440	900	≥ 80 F	≥ 73 F	≥ 67 F	≥ 32 F	≥ 0 F	Total
Dry Bulb	39199	43.6	6.6	658	900				5.0		90
Wet Bulb	36463	40.3	6.3	384	900				11.3		90
Dew Point	33090	36.8	7.8	40	900				26.2		90

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS NOV MONTH  
PAGE 1 ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
76/ 75														.0				3	3			
74/ 73												.0	.1					12	12			
72/ 71									.0	.0	.1	.0						6	6			
70/ 69							.0	.0	.0	.0	.1	.0						20	20			
68/ 67						.1	.1	.1	.1	.0	.0	.0						39	39			
66/ 65				.0	.1	.2	.2	.2	.1	.0	.0	.0						53	53			
64/ 63				.1	.2	.4	.3	.3	.1	.0								96	96			
62/ 61			.1	.2	.4	.6	.4	.3	.1	.0								145	145		1	
60/ 59		.0	.1	.3	.7	.6	.5	.1										172	172		12	
58/ 57		.3	.5	.8	.8	.7	.3	.1	.1									248	248		27	
56/ 55	.1	.8	1.1	1.4	.9	.7	.4	.3	.0									417	417		22	
54/ 53	.2	1.1	1.3	1.5	1.1	.8	.3	.2										513	513		67	
52/ 51	.2	1.4	2.2	1.2	1.1	.3	.2	.0	.0									482	482		142	
50/ 49	.3	2.5	3.8	1.4	1.0	.6	.3	.0										787	787		309	
48/ 47	.4	2.9	2.7	1.3	1.1	.4	.0	.0										629	629		422	
46/ 45	.7	4.3	1.7	1.3	.8	.2	.0											645	645		597	
44/ 43	.4	3.6	1.7	1.2	.5	.1												543	543		598	
42/ 41	.2	3.4	2.1	.7	.3	.1												494	494		667	
40/ 39	.5	2.5	2.0	.6	.2	.0												423	423		639	
38/ 37	.4	2.9	1.6	.4	.1													383	383		605	
36/ 35	.3	2.8	1.2	.2	.0													324	324		578	
34/ 33	.2	2.0	.8	.2	.1													237	237		541	
32/ 31	.1	2.2	.6	.2														224	224		491	
30/ 29	.3	1.4	.2	.0														143	143		410	
28/ 27	.5	.7	.1															91	91		352	
26/ 25	.1	.4																41	41		297	
24/ 23	.1	.2																22	22		211	
22/ 21	.0	.0																4	4		127	
20/ 19																				1	51	
18/ 17																					32	
16/ 15																					21	
14/ 13																					11	
12/ 11																					4	
10/ 9																					2	
Element (X)	Σ X <sup>2</sup>		Σ X		X		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total					
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																						
Wet Bulb																						
Dew Point																						

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

14011	TURREJON AR SPAIN/MADRID	68-77	NOV	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L. S. T.)
				PAGE 2

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

DEC  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb		
60/ 59					.1													1	1			
58/ 57				.1														1	1			
56/ 55		.4	.5	.1														4	4	2		
54/ 53	.1	.4																11	11	4		
52/ 51	.3	1.2	.4	.1														19	19	12		
50/ 49	.2	2.5	1.3	.8	.2													46	46	19		
48/ 47	.4	3.9	1.4	.1	.3													54	54	32		
46/ 45	1.2	4.0	1.6	.9	.3													74	74	66		
44/ 43	.9	6.2	1.4	.5	.1													85	85	63		
42/ 41	.6	5.5	1.7	.4														77	77	93		
40/ 39	.5	4.9	2.0	.3	.1													74	74	76		
38/ 37	.2	6.0	2.7	.4	.1													88	88	76		
36/ 35	.8	7.7	2.6	.2														105	105	81		
34/ 33	.3	7.4	2.0	.1														92	92	127		
32/ 31	1.0	5.2	1.1	.5	.1													73	73	87		
30/ 29	.5	4.2	1.3	.2														58	58	72		
28/ 27	.8	2.6	.8	.1														39	39	49		
26/ 25	.9	.6																14	14	45		
24/ 23	.3	1.0																12	12	18		
22/ 21		.2																2	2	5		
20/ 19		.1																1	1	2		
18/ 17																						
16/ 15																						
14/ 13																						
12/ 11																						
8/ 7																						
TOTAL	9.064	120.9	4.9	1.1														930	930	930		

Element (X)	Σ X'	Σ X	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	6519766	77256	83.1	10.480	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1423933	35799	38.5	7.029	930		19.9				93
Wet Bulb	1285963	33979	36.5	6.920	930		27.9				93
Dew Point	1112282	31288	33.6	8.014	930		44.9				93



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011  
STATION

TORREJON AB SPAIN/MADRID  
STATION NAME

68-77

YEARS

DEC  
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31						
60/ 59					.1	.1												1	1				
58/ 57				.1	.1	.1												2	3				
56/ 55		.1		.6	.1													10	10	3	1		
54/ 53		.3	.6															10	10	4	3		
52/ 51		.5	.9															23	23	23	9		
50/ 49	.4	1.2																55	55	20	13		
48/ 47		3.8	1.8	.2														69	69	70	45		
46/ 45	1.0	4.7	1.5	.1	.1													71	71	59	55		
44/ 43	1.4	4.3	1.2	.6	.1													82	82	73	57		
42/ 41	.4	6.1	1.4	.8	.1													81	81	77	69		
40/ 39	.9	6.0	1.7	.1														75	75	73	80		
38/ 37	.5	5.8	1.6	.1														76	76	78	69		
36/ 35	.4	6.1	1.4	.2														91	91	91	56		
34/ 33	1.3	6.5	1.8	.2														74	74	81	69		
32/ 31	.5	6.1	1.1	.2														65	65	101	93		
30/ 29	.4	6.0	.4	.1														48	48	53	74		
28/ 27	1.3	2.7	1.2															50	50	58	65		
26/ 25	.6	4.3	.4															35	35	42	65		
24/ 23	.6	3.1																6	6	16	39		
22/ 21	.1	.5																1	1	6	29		
20/ 19		.1																2	2	1	23		
18/ 17	.1	.1																					
16/ 15																							
14/ 13																							
12/ 11																							
TOTAL	10.168	517.6	2.9	.2	.6	.2												930	930	930	930		
Element (X)	Σ X <sup>2</sup>	Σ X	X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Σ X	Mean No. of Hours with Temperature					
Rel. Hum.	6695761	78413	84.3	9.530	930	930	930	930	930	930	930	930	930	930	930	930	930	≥ 80 F					
Dry Bulb	1324992	34384	37.0	7.606	930	930	930	930	930	930	930	930	930	930	930	930	930	≥ 73 F					
Wet Bulb	1204816	32770	35.2	7.345	930	930	930	930	930	930	930	930	930	930	930	930	930	≥ 67 F					
Dew Point	1049187	30281	32.6	8.250	930	930	930	930	930	930	930	930	930	930	930	930	930	≥ 60 F					
																		≥ 53 F					
																		≥ 46 F					
																		≥ 39 F					
																		≥ 32 F					
																		≥ 25 F					
																		≥ 18 F					
																		≥ 11 F					
																		≥ 4 F					
																		≥ -3 F					
																		≥ -10 F					
																		≥ -17 F					
																		≥ -24 F					
																		≥ -31 F					
																		≥ -38 F					
																		≥ -45 F					
																		≥ -52 F					
																		≥ -59 F					
																		≥ -66 F					
																		≥ -73 F					
																		≥ -80 F					
																		≥ -87 F					
																		≥ -94 F					
																		≥ -101 F					
																		≥ -108 F					
																		≥ -115 F					
																		≥ -122 F					
																		≥ -129 F					
																		≥ -136 F					
																		≥ -143 F					
																		≥ -150 F					
																		≥ -157 F					
																		≥ -164 F					
																		≥ -171 F					
																		≥ -178 F					
																		≥ -185 F					
																		≥ -192 F					
																		≥ -199 F					
																		≥ -206 F					
																		≥ -213 F					
																		≥ -220 F					
																		≥ -227 F					
																		≥ -234 F					
																		≥ -241 F					
																		≥ -248 F					
																		≥ -255 F					
																		≥ -262 F					
																		≥ -269 F					
																		≥ -276 F					
																		≥ -283 F					
																		≥ -290 F					
																		≥ -297 F					
																		≥ -304 F					
																		≥ -311 F					
																		≥ -318 F					
																		≥ -325 F					
																		≥ -332 F					
																		≥ -339 F					
																		≥ -346 F					
																		≥ -353 F					
																		≥ -360 F					
																		≥ -367 F					
																		≥ -374 F					
																		≥ -381 F					
																		≥ -388 F					
																		≥ -395 F					
																		≥ -402 F					
																		≥ -409 F					
																		≥ -416 F					
																		≥ -423 F					
																		≥ -430 F					
																		≥ -437 F					
																		≥ -444 F					
																		≥ -451 F					
																		≥ -458 F					
																		≥ -465 F					
																		≥ -472 F					
																		≥ -479 F					
																		≥ -486 F					
																		≥ -493 F					
																		≥ -500 F					
																		≥ -507 F					
																		≥ -514 F					
																		≥ -521 F					
																		≥ -528 F					
																		≥ -535 F					
																		≥ -542 F					
																		≥ -549 F					
																		≥ -556 F					
																		≥ -563 F					
																		≥ -570 F					
																		≥ -577 F					
																		≥ -584 F					
			</																				



## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

**PAGE 1**

**0600-0800**  
**HOURS (L. S. T.)**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL	
	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Wet Bulb	Dew Point			
62/ 61						.1												1	1				
60/ 59																		1	1				
58/ 57						.1												1	1				
56/ 55						.1												2	2				
54/ 53			.5			.2												14	14	4			
52/ 51		.3	.2															5	5	8			
50/ 49	.6	1.9	1.2	.2														37	37	20			
48/ 47	.6	3.9	1.1	.4														56	56	24			
46/ 45	.8	5.4	.8	.1	.1													66	66	61			
44/ 43	.6	4.7	.6	.5	.1													62	62	67			
42/ 41	.4	4.3	.4	.4	.4													52	52	57			
40/ 39	.5	6.8	2.5	.3	.2													96	96	67			
38/ 37	.3	4.6	2.4															72	72	83			
36/ 35	1.1	6.2	.3	.2														78	78	90			
34/ 33	.9	5.2	1.3															68	68	89			
32/ 31	1.1	8.4	.9	.2														98	98	59			
30/ 29	1.0	4.2	.2	.2														52	52	106			
28/ 27	1.7	3.7	.6	.1														57	57	45			
26/ 25	1.1	4.4	.2															53	53	54			
24/ 23	.2	4.4																43	43	49			
22/ 21	.2	1.0																11	11	36			
20/ 19	.1	.4																5	5	10			
18/ 17																				1			
16/ 15																							
14/ 13																							
12/ 11																							
10/ 9																							
TOTAL	11.77	70.6	13.8	2.8	1.0	.1												930	930	930			

Element (X)	Zx'	Zx	X̄	S <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	6766258	78852	84.8	9.316	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb	1305612	34050	36.6	7.965	930		31.9				93		
Wet Bulb	1191032	32514	35.0	7.645	930		36.0				93		
Dew Point	1040883	30091	32.4	8.509	930		48.0				93		

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS DEC MONTH  
PAGE 1 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	
64/ 63						.1												1	1		
60/ 59					.2													2	2		
58/ 57		.2	.1															4	4		
56/ 55		.3	.2	.1	.8	.3			.1									17	17	3	
54/ 53	.1	1.0	1.1	.8	.6	.1		.1										34	34	8	
52/ 51	.3	.4	1.5	.8	.4	.1												33	33	16	
50/ 49	.4	1.4	3.2	.9	.1	.2												58	58	24	
48/ 47	.4	3.3	2.8	1.1	1.1	.1	.1											85	85	57	
46/ 45	.6	5.2	2.3	1.5	.9	.1												98	98	89	
44/ 43	.2	5.3	3.3	1.5	.8	.1												104	104	80	
42/ 41	.2	6.0	4.5	.8	.3		.1											111	111	113	
40/ 39	.3	4.7	4.1	.8	.3													95	95	102	
38/ 37	.5	6.1	2.6	.8	.1													94	94	113	
36/ 35	.3	5.3	1.3	.5	.1													70	70	98	
34/ 33	.3	2.9	1.0	.4														43	43	85	
32/ 31	.1	1.6	1.2															27	27	50	
30/ 29	.3	1.7	.6															25	25	47	
28/ 27	.2	1.6																17	17	24	
26/ 25		.6																6	6	15	
24/ 23		.6																6	6	3	
22/ 21																				3	
20/ 19																					
18/ 17																					
16/ 15																					
14/ 13																					
8/ 7																					
TOTAL	4.548	6.29	.8	9.8	5.8	1.1	.2	.1	.1									930	930	930	

Element (X)	Z <sub>X</sub>	X̄	S <sub>X</sub>	No. Obs.	Mean No. of Hours with Ter.				
Rel. Hum.	5892239	78.612	853	930	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 8
Dry Bulb	1673457	41.9	6.770	930		8.1			
Wet Bulb	1451928	39.0	6.265	930		14.2			
Dew Point	1211679	35.3	7.325	930		31.4			
									Total
									93
									93
									93

Element (X)	Z <sub>X</sub>	X	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Ter				Total
Ref. Hum.	5892259	73055	78.6	930	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 6
Dry Bulb	1673457	38945	41.9	930		8.1			93
Wet Bulb	1451923	36282	39.0	930		14.2			93
Dew Point	1211679	32871	35.3	930		31.4			93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14011 STATION TORREJON AB SPAIN/MADRID 68-77 YEARS MONTH DEC

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
66/ 65										.1		.1																					1	1		
64/ 63										.1		.4																				2	2			
62/ 61								.2	.3	1.0	.4		.1					.1	.2													21	21			
60/ 59								.3	.5	.8	.1							.1	.1													20	20			
58/ 57		.1	.2					.9	1.4	1.3	.5	.3						.2	.1	.2												53	53	3		
56/ 55		.4	.9	1.1	1.4	2.0	3.6	1.4	1.1	.4	.1																					55	55	10	1	
54/ 53		.8	1.1	1.4	2.0	3.6	1.4	1.1	.4	.1																						88	88	26	13	
52/ 51	.3	.5	1.4	4.0	2.6	1.2	.4																									97	97	43	18	
50/ 49		1.6	5.5	4.3	3.8	1.9																										159	159	63	22	
48/ 47		2.6	3.9	2.5	1.2	.4	.1																									113	113	104	33	
46/ 45	.2	3.7	2.2	1.8	1.2	.6	.3																									93	93	139	46	
44/ 43	.1	2.3	2.4	1.4	.8	.5	.1																									70	71	146	80	
42/ 41	.1	1.9	2.5	1.6	1.0	.4																										70	70	119	88	
40/ 39		2.4	.8	1.1	.9																											47	47	89	111	
38/ 37		1.0	.5	.1	.1																											16	16	78	106	
36/ 35	.2	.5	.3	.2																												12	12	56	101	
34/ 33		.3	.2	.1																												6	6	31	65	
32/ 31		.2	.3																													5	5	11	79	
30/ 29																																			7	40
28/ 27																																			3	38
26/ 25																																				24
24/ 23																																				25
22/ 21																																				9
20/ 19																																				11
18/ 17																																				9
16/ 15																																				4
14/ 13																																				3
10/ 9																																				1
8/ 7																																				1
TOTAL	1.0	19.2	22.6	22.1	18.5	11.5	3.4	.6	.3	.4	.2																					928	929	928	928	

Element (X)	Zx'	Zx	X	%	No. Obs.	Mean No. of Hours with Temperature										Total																			
Rel. Hum.	4276206	61176	65.9	16.202	928																														
Dry Bulb	2231708	43186	48.6	6.043	928																														93
Wet Bulb	1758843	40097	43.2	5.330	928																														93
Dew Point	1320205	34275	36.9	7.632	928																														93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 14011 TURREJON AR SPAIN/MADRID STATION NAME YEARS 68-77 MONTH DEC

PAGE 1 1500-1700  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30					31
64/ 63				.2	.1	.1	.2											6	6		
62/ 61				.4	.3	.3	.4				.1							15	15		
60/ 59			.1	.6	.8	.4	1.0	.1	.2	.1								31	31		
58/ 57		.4	.9	.4	.2	.6	.3	.5	.1	.1	.1							34	34	3	
56/ 55	.1	.8	.8	.9	1.3	.6	.1	.1	.1	.1								44	44	14	10
54/ 53	.1	.9	1.4	1.4	3.9	1.2	.1	.1										84	84	28	
52/ 51	.8	.8	2.7	2.7	3.1	1.0	.1											96	96	31	19
50/ 49	.1	1.7	4.2	4.0	3.1	.9	.4											134	134	52	25
48/ 47	.2	2.3	3.5	2.7	1.1	.8	.4	.1										103	103	103	33
46/ 45	.1	3.4	2.6	2.9	1.6	.6												105	105	143	52
44/ 43	.1	2.7	2.6	1.6	1.6	.1												81	81	142	65
42/ 41	.1	3.1	3.2	2.3	1.2	.4	.1											97	97	112	110
40/ 39		1.1	1.5	.9	.5													37	37	89	100
38/ 37		2.0	1.0	.4	.3													35	35	54	120
36/ 35	.1	.3	.6	.4	.2													16	16	65	104
34/ 33		.4	.4	.2														10	10	28	65
32/ 31			.2															2	2	22	40
30/ 29																				11	43
28/ 27																				3	43
26/ 25																					32
24/ 23																					29
22/ 21																					13
20/ 19																					11
18/ 17																					9
16/ 15																					3
12/ 11																					1
10/ 9																					3
TOTAL	.9	19.925	722.0	19.4	7.1	3.2	1.0	.4	.3	.1								930	930	930	930

Elemen. (X)	Zx'	Zx	X	X'	No. Obs.	Mean No. of Hours with Temperature					Total	
						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F		± 93 F
Rel. Hum.	4443947	62571	67.315	.878	930							
Dry Bulb	2177290	44626	48.0	6.218	930							93
Wet Bulb	1736240	39850	42.8	5.557	930							93
Dew Point	1321121	34303	36.9	7.754	930							93

Element (X)	Σ X'	Σ X	Σ X <sup>2</sup>	Σ X <sup>3</sup>	Σ X <sup>4</sup>	No. Obs.	Mean No. of Hours with Temperature				Total
							≤ 0 F	≤ 32 F	≤ 67 F	≤ 80 F	≤ 93 F
Rel. Hum.	4443947	62571	67.3	15.873		930					
Dry Bulb	2177290	44626	48.0	6.218		930					93
Wet Bulb	1736240	39850	42.8	5.557		930		3.6			93
Dew Point	1321121	34303	36.9	7.754		930		22.7			93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 14011 TURREJON AR SPAIN/MADRID STATION NAME YEARS 68-77 DEC MONTH 1800-2000 HOURS (L. S. T.)

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL		Dew Point			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	D.B./W.B.	Dry Bulb
62/ 61					.1													1	1	
60/ 59					.1													1	1	
58/ 57		.1	.1															2	11	4
56/ 55	.1	.4	.4	.1														11	20	8
54/ 53	.1	.5	1.1	.4														20	40	15
52/ 51	.3	1.7	.9	.4	.9				.1									70	70	31
50/ 49	.2	2.7	2.6	1.3	.5													95	95	51
48/ 47	.5	4.6	3.7	.4	.6	.3												117	117	84
46/ 45	.6	6.3	3.4	1.4	.5		.2											123	123	109
44/ 43	.2	7.2	3.0	1.9	.8	.1												94	94	112
42/ 41	.2	5.3	3.9	.6	.1													103	103	104
40/ 39	.2	4.3	5.4	1.2	.1													87	87	114
38/ 37	.2	4.3	3.9	.9	.1													62	62	95
36/ 35	.2	2.8	2.6	1.2	.1													37	37	78
34/ 33	.3	1.6	1.5	.3	.2													48	48	46
32/ 31	.1	2.6	2.2	.3														11	11	41
30/ 29		.9	.2	.1														7	7	28
28/ 27	.1	.5	.1															1	1	8
26/ 25		.1																		2
24/ 23																				
22/ 21																				
20/ 19																				
18/ 17																				
16/ 15																				
14/ 13																				
12/ 11																				
10/ 9																				
TOTAL	3.146	0.025	110.8	4.2	.4	.3	.1											930	930	930

Element (X)	Σx <sup>2</sup>	Σx	X̄	%	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	5807693	72579	78.0	12.428	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Dry Bulb	1697208	39332	42.3	6.028	930		6.7					93	
Wet Bulb	1476480	36652	39.4	6.049	930		12.5					93	
Dew Point	1236078	33148	35.6	7.665	930		31.5					93	

Mean No. of Hours with Temperature

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	σ <sub>x</sub>	No. Obs.	Σ 32 F	Σ 27 F	Σ 23 F	Σ 18 F	Σ 13 F	Σ 8 F	Σ 3 F	Total
Rel. Hum.	5807693	72579	78.01	2.428	930								
Dry Bulb	1697208	39332	42.3	6.028	930	6.7							93
Wet Bulb	1478480	36652	39.4	6.049	930	12.5							93
Dew Point	1236078	33148	35.6	7.665	930	31.5							93

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AB SPAIN/MADRID 68-77 YEARS PAGE 1 2100-2300 DEC MONTH  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		TOTAL		
																			D.B./W.B.		Dry Bulb			Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19	20	21-22	23-24	25-26	27-28	29-30	≥ 31							
58/ 57			.1																1	1					
56/ 55		.5																	5	5					
54/ 53		.6	.6	.2															14	14	8	4			
52/ 51	.2	1.3	.5																20	20	7	8			
50/ 49		1.7	1.3	.4															35	35	23	10			
48/ 47	.3	3.7	1.9	.2	.1														58	58	25	18			
46/ 45	1.1	6.3	1.8	.4	.1	.1													92	92	76	48			
44/ 43	.4	7.5	1.6	.8			.1												97	97	95	68			
42/ 41	.3	6.5	2.9	1.5	.1														105	105	88	75			
40/ 39	.1	5.7	3.8	.4	.1														94	94	70	63			
38/ 37	.2	7.5	2.8	.9															106	106	87	86			
36/ 35	.2	6.2	2.0	.9	.1														88	88	120	68			
34/ 33	.5	4.7	1.6	.1															65	65	98	93			
32/ 31	.4	4.4	1.1	.3															58	58	76	80			
30/ 29	.3	3.4	.6	.1															42	42	75	75			
28/ 27	.3	1.9	1.0	.2															32	32	36	71			
26/ 25	.3	.6																	9	9	28	57			
24/ 23		.6	.1																7	7	11	51			
22/ 21		.1																	1	1	4	14			
20/ 19		.1																	1	1	1	19			
18/ 17																					1	5			
16/ 15																						8			
14/ 13																						6			
12/ 11																						3			
TOTAL	4.863	723.9	6.5	.9	.2	.1													930	930	930	930			

Mean No. of Hours with Temperature

No. Obs.

Σ X

X

Σ X

Σ X<sup>2</sup>

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

Total

93

93

93



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011

TORREJON AR SPAIN/MADRID

STATION NAME

YEARS

DEC  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
66/ 65																		1	1		
64/ 63																		9	9		
62/ 61																		38	38		
60/ 59																		57	57		
58/ 57																		99	99		
56/ 55																		140	140	6	3
54/ 53																		275	275	89	43
52/ 51																		320	320	136	78
50/ 49																		562	562	255	127
48/ 47																		619	619	416	183
46/ 45																		714	714	728	385
44/ 43																		693	694	761	502
42/ 41																		688	688	767	573
40/ 39																		627	627	674	631
38/ 37																		573	573	708	743
36/ 35																		507	507	683	700
34/ 33																		412	412	627	579
32/ 31																		385	385	432	664
30/ 29																		253	253	460	531
28/ 27																		200	200	241	474
26/ 25																		133	133	208	365
24/ 23																		103	103	125	354
22/ 21																		18	18	64	159
20/ 19																		9	9	19	140
18/ 17																		3	3	3	97
16/ 15																				2	45
14/ 13																					36
12/ 11																					16
10/ 9																					7
8/ 7																					3
TOTAL	5.650.123.710.2	6.4	2.6	.9	.2	.1	.1	.0										7438	7439	7438	7438

Element (X)	Σ X'	Σ X	X̄	S <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	46720399	579879	78.014	259	7438	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	13326792	309066	41.5	8.084	7439		110.4					744
Wet Bulb	11441123	286823	38.6	7.155	7438		155.4					744
Dew Point	9436891	258059	34.7	3.064	7438		289.2					744

Mean No. of Hours with Temperature

No. Obs.

°x

X

2X

2X'

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

Total

7444

7444

7444

REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OLA)

JUL 64

USAFETAC



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14011 STATION TURREJON AR SPAIN/MADRID

68-78

YEARS

ALL MONTH

PAGE 1

ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
106/105																	.0	3	3				
104/103																	.0	8	8				
102/101																	.0	23	23				
100/99																	.1	83	83				
98/97															.0	.0	.2	155	155				
96/95														.0	.0	.1	.2	290	290				
94/93														.0	.1	.1	.2	367	367				
92/91										.0	.0	.0	.0	.1	.1	.1	.1	433	433				
90/89										.0	.0	.0	.0	.2	.2	.2	.1	774	774				
88/87										.0	.0	.0	.1	.2	.2	.1	.1	843	843				
86/85									.0	.1	.2	.3	.3	.3	.3	.1	.0	1264	1264				
84/83								.0	.1	.2	.4	.3	.2	.2	.1	.0	.0	1209	1209				
82/81							.0	.0	.1	.2	.4	.3	.3	.2	.1	.0	.0	1457	1457				
80/79						.0	.0	.1	.2	.4	.3	.3	.2	.1	.0	.0	.0	1511	1511				
78/77				.0	.0	.0	.1	.2	.4	.3	.4	.4	.2	.1	.0	.0	.0	1504	1504				
76/75				.0	.0	.1	.3	.5	.4	.3	.3	.3	.1	.0	.0	.0	.0	1776	1776				
74/73	.0			.0	.1	.3	.5	.4	.3	.5	.3	.3	.1	.0	.0	.0	.0	1812	1812	3	1		
72/71		.0	.0	.0	.1	.3	.5	.4	.3	.4	.3	.1	.0	.0				1910	1910	17			
70/69		.0	.0	.1	.3	.5	.7	.6	.4	.2	.2	.1	.0	.0				2206	2206	79	1		
68/67		.0	.1	.1	.5	.7	.6	.6	.4	.2	.1	.0	.0	.0				2954	2954	391	5		
66/65	.0	.0	.2	.3	.6	.5	.7	.7	.4	.2	.1	.0	.0	.0				2707	2707	1478	18		
64/63	.0	.1	.3	.6	.5	.7	.6	.5	.2	.1	.0	.0	.0	.0				3255	3255	2665	120		
62/61	.0	.2	.5	.6	.7	.8	.6	.4	.2	.0	.0	.0	.0	.0				3519	3519	3883	390		
60/59	.0	.3	.6	.7	.9	.7	.6	.3	.1	.0	.0	.0	.0	.0				3568	3568	4755	686		
58/57	.1	.6	.6	.6	.9	.7	.4	.2	.1	.0	.0	.0	.0	.0				3866	3867	5433	1408		
56/55	.1	.8	.9	.9	.9	.6	.4	.1	.0	.0	.0	.0	.0	.0				4237	4239	5438	2397		
54/53	.1	.9	1.2	1.2	.9	.6	.3	.1	.0	.0	.0	.0	.0	.0				4650	4650	5636	3652		
52/51	.1	.8	1.3	.8	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0				3776	3777	5778	3860		
50/49	.1	1.5	2.2	1.0	.9	.5	.1	.0	.0	.0	.0	.0	.0	.0				5593	5594	5727	6037		
48/47	.2	1.6	1.8	.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0				4720	4720	6517	5863		
46/45	.3	2.3	1.2	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0				4562	4562	6216	6979		
44/43	.2	2.2	1.1	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0				4196	4197	6126	7121		
42/41	.1	2.1	1.3	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0				3917	3917	5433	7493		
40/39	.1	1.5	1.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0				3179	3179	4536	6771		
Element (X)	Σ X																Σ X		Σ X				
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							
Mean No. of Hours with Temperature																		Total					
																		≤ 0 F	≥ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

USAFETAC

## PSYCHROMETRIC SUMMARY

62-78

YEARS

PAGE 2

ALL

ALL  
HOURS (L.S.)

[illegible]

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/1AC

# MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

14011 TURREJUN AB SPAIN/MADRID 68-78

HRS IL ST I		STATION NAME												YEARS	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
00-02	MEAN	38.0	38.8	40.7	45.7	50.7	58.6	66.4	65.5	58.5	50.8	42.0	38.5	49.6	
	S D	7.084	6.561	6.275	6.156	6.720	6.442	5.832	6.337	6.425	6.471	7.385	7.029	12.102	
	TOTAL OBS	930	846	930	819	929	900	930	930	899	930	899	930	10872	
03-05	MEAN	34.7	37.1	38.1	42.5	47.3	54.3	61.0	60.6	54.7	48.0	47.3	37.0	46.5	
	S D	7.523	7.165	6.738	6.576	6.398	5.683	5.422	5.649	5.965	6.835	7.700	7.606	11.108	
	TOTAL OBS	930	846	930	833	929	899	930	930	900	930	899	930	10886	
06-08	MEAN	34.1	36.7	38.5	45.2	52.3	60.4	67.2	64.2	56.6	48.5	47.1	36.6	48.6	
	S D	8.047	7.307	6.930	6.686	7.133	6.510	6.211	6.507	6.400	7.198	7.892	7.965	13.030	
	TOTAL OBS	929	846	930	899	930	900	929	930	900	930	900	930	10953	
09-11	MEAN	41.1	43.4	47.4	54.4	61.3	70.3	78.8	76.2	67.9	58.7	47.5	41.9	57.5	
	S D	6.969	5.013	6.145	6.101	7.863	7.558	5.978	6.415	6.734	6.850	6.650	6.770	14.571	
	TOTAL OBS	929	846	930	900	928	900	930	930	900	930	898	930	10951	
12-14	MEAN	48.0	50.6	54.0	60.2	66.7	76.3	86.2	83.9	75.6	65.9	54.6	48.6	64.3	
	S D	5.864	5.403	6.531	7.111	9.115	8.733	6.615	7.039	7.653	7.399	6.369	6.043	14.927	
	TOTAL OBS	930	846	930	899	929	900	929	930	900	930	900	929	10952	
15-17	MEAN	42.5	51.8	55.1	61.3	67.7	77.3	88.2	85.8	77.1	66.4	54.3	48.0	65.2	
	S D	6.299	5.794	7.097	7.701	9.619	9.400	6.700	7.288	8.345	8.100	6.788	6.218	15.635	
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956	
18-20	MEAN	42.6	45.5	49.4	56.3	62.9	72.8	83.3	80.3	70.0	58.6	47.2	42.3	59.3	
	S D	5.854	5.789	6.716	7.288	9.257	9.220	7.235	7.835	8.127	7.044	6.341	6.028	15.785	
	TOTAL OBS	929	846	930	900	930	900	930	930	900	930	900	930	10955	
21-23	MEAN	39.5	41.2	43.7	49.6	55.0	63.5	72.4	70.3	62.2	53.4	43.6	39.5	52.9	
	S D	6.469	4.262	5.972	5.173	7.381	7.035	6.041	6.304	6.529	6.449	6.658	6.631	13.156	
	TOTAL OBS	930	846	929	900	928	900	930	930	900	930	900	930	10953	
ALL HOURS	MEAN	41.3	43.1	45.8	52.1	58.0	66.7	75.4	73.3	65.3	56.3	46.2	41.5	55.5	
	S D	8.080	8.320	9.060	9.512	10.773	11.160	11.356	11.186	10.707	9.827	8.854	8.084	15.418	
	TOTAL OBS	7437	6768	7439	7050	7433	7199	7438	7440	7199	7440	7196	7439	87478	

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

14011

TURREJON AR SPAIN/MADRID

68-78

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	36.1 6.959 930	36.4 6.473 846	37.6 6.217 930	41.8 5.881 819	46.6 5.617 929	53.0 5.085 900	55.5 4.779 930	54.8 5.115 930	51.4 5.650 899	46.8 6.546 930	39.5 6.999 899	36.5 6.920 930	44.7 9.491 10872
03-05	35.0 7.282 930	35.1 7.015 846	35.6 6.630 930	39.5 6.304 833	44.3 5.849 928	50.5 5.122 899	53.1 4.951 930	52.5 5.169 930	49.4 5.605 900	44.9 6.903 930	38.1 7.284 899	35.2 7.345 930	42.8 9.390 10885
06-08	34.5 7.763 928	34.9 7.175 846	36.0 6.759 930	41.6 6.370 899	47.8 5.786 930	54.2 4.872 900	56.8 4.721 929	54.9 5.006 930	50.9 5.595 900	45.3 7.010 929	38.0 7.451 900	35.0 7.645 930	44.2 10.434 10951
09-11	38.3 6.144 928	39.6 5.718 846	41.7 5.647 930	47.0 5.405 900	52.3 5.434 928	58.1 4.576 900	61.3 3.733 930	60.3 4.084 930	57.0 4.696 900	51.4 5.636 929	43.3 5.860 898	39.0 6.265 930	49.2 9.892 10949
12-14	42.5 5.161 930	43.6 4.903 846	44.9 5.409 930	49.6 5.383 899	54.1 5.331 929	59.6 4.312 930	62.1 3.480 929	61.5 3.830 930	58.8 4.464 900	54.6 5.077 930	47.2 5.088 900	43.2 5.330 928	51.9 8.673 10951
15-17	42.8 5.230 930	44.0 4.871 846	45.1 5.279 930	49.5 5.220 900	53.9 5.194 930	59.0 4.096 900	61.3 3.149 930	60.6 3.425 930	58.0 4.113 900	54.1 5.098 930	46.9 5.238 900	42.8 5.557 930	51.6 8.353 10956
18-20	36.5 5.762 929	41.0 5.528 846	42.9 5.607 929	47.7 5.601 900	52.4 5.447 930	58.0 4.498 900	60.1 3.401 930	59.1 3.757 930	55.7 4.551 900	51.0 5.620 930	43.1 5.874 900	39.4 6.049 930	49.2 9.184 10954
21-23	37.3 6.380 930	38.1 6.019 846	39.6 5.794 929	44.2 5.645 900	49.0 5.468 928	54.9 4.832 900	57.1 4.347 930	56.0 4.459 930	52.6 5.008 900	48.2 6.123 929	40.5 6.384 900	37.3 6.616 930	46.3 9.267 10952
ALL HOURS	38.3 7.055 7435	39.1 6.893 6768	40.4 6.916 7438	45.2 6.779 7050	50.0 6.483 7432	55.9 5.580 7199	58.4 5.129 7438	57.4 5.388 7440	54.4 6.011 7199	49.6 7.007 7437	42.1 7.202 7196	38.6 7.155 7438	47.5 9.893 87470

DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

14011 TURREJON AB SPAIN/MADRID 68-78

STATION NAME

YEARS

HRS (U.S.)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN 33.4 7.977 930	33.0 7.686 930	33.3 7.692 930	37.1 7.263 819	42.7 6.417 929	48.3 6.613 900	46.8 7.598 930	46.0 7.500 930	45.1 7.744 899	42.8 8.527 930	36.2 8.105 899	33.6 8.014 930	39.9 9.534 10872
03-05	MEAN 32.2 8.215 930	32.0 8.176 930	31.9 8.044 930	35.8 7.318 833	41.2 6.558 928	47.1 6.250 899	46.3 7.226 930	45.4 7.320 930	44.5 7.305 900	41.5 8.511 930	35.1 8.252 899	32.6 8.250 930	38.8 9.641 10885
06-08	MEAN 31.9 8.661 928	32.0 8.259 846	32.4 8.078 930	37.4 7.632 899	43.6 6.448 930	49.3 6.158 900	48.9 6.727 929	47.4 6.729 930	45.9 7.030 900	41.9 8.397 929	35.2 8.320 900	32.4 8.509 930	39.9 10.185 10951
09-11	MEAN 34.6 7.418 929	34.8 7.555 846	34.7 8.316 930	39.4 7.706 900	44.7 6.699 928	49.4 6.380 900	50.0 6.402 930	49.6 6.541 930	48.8 6.606 900	45.2 7.718 929	39.6 7.445 898	35.3 7.325 930	42.1 9.502 10949
12-14	MEAN 36.2 7.289 930	35.7 7.966 846	34.0 8.761 930	39.6 7.774 899	44.0 6.879 929	48.0 6.496 900	47.5 6.679 929	47.4 6.754 930	47.2 7.164 900	45.4 7.808 930	39.8 7.553 900	36.9 7.652 930	41.9 8.940 10951
15-17	MEAN 36.3 7.215 930	35.1 8.152 846	34.0 8.573 930	38.4 7.886 900	42.7 7.050 930	46.6 6.787 900	44.9 6.486 930	44.7 6.562 930	44.5 7.308 900	44.1 8.173 930	39.4 7.680 900	36.9 7.754 930	40.7 8.613 10956
18-20	MEAN 35.6 7.106 929	35.4 7.492 846	35.3 8.105 929	39.2 8.002 900	43.6 7.158 930	47.5 7.444 900	45.0 7.098 930	44.6 6.863 930	44.5 7.471 900	44.0 8.406 930	38.4 7.661 900	35.6 7.665 930	40.8 8.717 10954
21-23	MEAN 34.2 7.238 930	33.9 7.475 846	34.2 7.864 929	38.4 7.565 900	43.3 6.717 928	48.0 7.184 900	45.6 7.943 930	44.8 7.570 930	44.2 7.674 900	43.1 8.511 929	36.8 7.840 900	34.2 7.899 930	40.1 9.164 10952
ALL HOURS	MEAN 34.3 7.828 7435	34.0 7.973 6768	33.8 8.285 7438	38.2 7.746 7050	43.2 6.813 7432	48.0 6.739 7199	46.9 7.242 7438	46.3 7.178 7440	45.6 7.450 7199	43.5 8.366 7437	37.4 8.051 7196	34.7 8.064 7438	40.5 9.356 87470

## RELATIVE HUMIDITY

PERIOD

JAN

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	100.0	100.0	97.6	89.4	74.1	25.8	83.7	930
	03-05	100.0	100.0	100.0	100.0	99.5	97.4	90.0	76.6	28.2	84.2	930
	06-08	100.0	100.0	99.9	99.9	99.7	98.4	91.1	79.5	30.6	84.9	928
	09-11	100.0	100.0	99.9	99.5	97.0	89.4	73.6	51.6	16.1	78.3	928
	12-14	100.0	99.8	99.5	94.3	80.1	61.1	41.5	19.6	3.9	65.5	930
	15-17	100.0	99.9	98.4	92.3	78.1	59.0	40.1	19.6	5.6	64.8	930
	18-20	100.0	100.0	100.0	99.9	98.1	89.2	69.2	44.1	12.7	77.1	929
	21-23	100.0	100.0	100.0	100.0	99.9	97.8	83.8	60.9	16.6	81.4	930
TOTALS		100.0	100.0	99.7	98.2	84.1	36.2	72.3	53.3	17.4	77.5	7435

0-87-5 (OL 1)



## RELATIVE HUMIDITY

834

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	99.9	98.5	94.9	77.4	55.7	22.3	80.3	846
	03-05	100.0	100.0	100.0	99.6	99.1	96.2	85.2	62.6	25.3	82.1	846
	06-08	100.0	100.0	100.0	99.9	99.4	97.0	87.0	68.2	28.7	83.2	846
	09-11	100.0	100.0	99.8	98.8	91.6	77.1	57.2	35.1	13.1	73.2	846
	12-14	100.0	99.8	97.3	86.9	63.5	40.9	27.0	13.2	4.7	58.9	846
	15-17	100.0	99.1	94.3	81.4	53.2	33.1	22.3	9.9	2.8	55.4	846
	18-20	100.0	100.0	99.6	96.7	89.8	73.9	46.8	22.6	7.3	69.3	846
	21-23	100.0	100.0	99.6	98.8	96.6	87.2	65.6	40.9	14.8	76.1	846
TOTALS		100.0	99.9	98.8	95.3	86.4	75.3	58.6	38.5	14.9	72.3	6768



## RELATIVE HUMIDITY

MARK

## USAF ETAC

FORM  
JUL 64

0-87-5 (OL 1)



DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

14011 STATION TURREJON AB SPAIN/MADRID PERIOD 68-77 MAY MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	100.0	98.7	93.9	83.6	68.1	39.4	13.6	75.2	929
	03-05	100.0	100.0	100.0	100.0	98.4	91.3	79.7	56.1	18.6	80.0	928
	06-08	100.0	100.0	99.9	98.6	93.4	81.3	62.9	37.4	10.1	73.8	930
	09-11	100.0	99.8	97.3	84.6	62.0	36.6	20.7	6.6	1.6	56.4	928
	12-14	100.0	98.4	84.5	59.8	34.2	18.9	9.6	3.8	.9	46.5	929
	15-17	100.0	95.1	76.9	48.4	29.8	16.7	9.5	4.6	.5	43.6	930
	18-20	100.0	98.0	87.5	71.6	51.0	32.3	20.5	8.7	2.2	52.7	930
	21-23	100.0	100.0	98.8	92.6	82.1	63.5	47.3	23.1	7.0	66.8	928
TOTALS		100.0	98.9	93.1	81.8	68.1	53.0	39.8	22.5	6.8	61.9	7432

## RELATIVE HUMIDITY

68-77

PERIOD

JULY MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

USAF ETAC  
FORM: JUL 64  
0-87.5 (OL 1)

FORM  
FBI-64

0-87-5 (OL 1)

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

**MONTE JULI**

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
JUL	00-02	100.0	99.9	93.0	73.8	45.8	25.5	12.8	5.6	1.0	51.2	930
	03-05	100.0	100.0	99.4	91.4	71.8	43.3	25.9	10.5	1.8	50.0	930
	06-08	100.0	100.0	97.1	82.0	52.5	29.1	14.2	5.3	1.1	53.7	929
	09-11	100.0	95.6	74.6	35.7	11.3	4.4	1.2	.6	.1	38.1	930
	12-14	100.0	75.1	30.5	8.4	2.9	1.7	1.0	.2	.1	27.6	929
	15-17	99.9	56.2	16.0	5.9	2.6	.9	.1	.1		23.7	930
	18-20	100.0	70.5	30.9	12.8	7.1	3.9	1.2	.5	.2	28.3	930
	21-23	100.0	96.8	71.2	41.8	21.2	11.7	6.5	2.3	.3	40.8	930
TOTALS		100.0	86.8	64.1	44.0	26.9	13.1	7.9	3.1	.6	40.4	7438

## RELATIVE HUMIDITY

**TORREJON AB SPAIN/MADRID**

23-09

STATION NAME

PERIOD

AUG  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	99.7	95.1	76.5	49.5	20.2	10.3	4.9	1.1	51.2	930
	03-05	100.0	100.0	98.3	91.2	73.1	44.0	20.1	5.3	1.7	58.8	930
	06-08	100.0	99.9	98.4	87.2	64.4	36.5	15.5	5.5	1.5	56.2	930
	09-11	100.0	97.5	80.5	45.8	17.3	5.9	2.6	1.0		40.8	930
	12-14	99.7	85.8	35.6	10.9	4.3	2.7	1.6	.6	.2	29.6	930
	15-17	99.5	65.6	18.5	7.5	4.7	2.3	1.3	.3		25.4	930
	18-20	99.8	81.3	36.7	15.1	8.5	5.4	2.9	1.3	.1	30.7	930
	21-23	100.0	98.1	78.6	47.8	21.5	12.2	7.6	3.2	.4	42.6	930
TOTALS		99.9	91.0	67.7	47.8	30.4	16.2	7.7	2.8	.6	41.9	7440

USAF ETAC  
FORM JUL 64

0-87-5 (OL 1)

## RELATIVE HUMIDITY

MONTH  
SEP

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
SEP	00-02	100.0	100.0	98.4	94.0	76.1	51.1	34.5	15.7	3.6	62.9	899
	03-05	100.0	100.0	100.0	97.7	91.6	70.4	51.3	23.7	5.2	68.6	900
	06-08	100.0	100.0	99.8	97.6	89.2	69.3	49.6	22.4	5.4	68.9	900
	09-11	100.0	99.7	96.3	77.9	49.4	24.9	13.8	5.1	1.8	52.4	900
	12-14	100.0	95.0	69.4	35.7	17.4	8.6	3.9	2.0	.7	38.9	900
	15-17	100.0	87.2	46.2	24.6	13.0	8.2	5.3	2.6	.8	34.3	900
	18-20	100.0	95.9	73.6	46.6	27.4	16.7	9.7	4.6	1.4	43.1	900
	21-23	100.0	99.9	94.4	76.7	53.0	32.6	19.3	8.6	2.3	54.3	900
TOTALS		100.0	97.2	84.8	68.9	52.1	35.2	23.4	10.6	2.7	53.1	7199



## RELATIVE HUMIDITY

1967

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
APR	00-02	100.0	100.0	100.0	98.3	92.2	82.3	64.8	42.5	19.8	73.5	930
	03-05	100.0	100.0	100.0	99.1	96.5	88.3	73.1	51.6	24.6	79.1	930
	06-08	100.0	100.0	100.0	99.2	95.2	87.1	74.2	52.0	24.7	79.1	929
	09-11	100.0	100.0	98.4	90.0	75.1	54.8	37.2	15.0	5.2	63.0	929
	12-14	100.0	98.6	87.7	69.7	45.8	25.1	13.5	5.3	2.2	50.2	930
	15-17	100.0	96.5	81.7	59.7	41.3	22.8	12.4	7.1	2.6	47.9	930
	18-20	100.0	99.8	94.8	84.3	66.8	53.1	38.8	16.5	5.4	61.4	930
	21-23	100.0	100.0	99.4	93.9	84.3	67.2	54.9	32.9	13.0	70.1	929
TOTALS		100.0	99.4	95.3	86.8	74.7	59.8	46.1	27.9	12.2	65.8	7437

## RELATIVE HUMIDITY

ADV \_\_\_\_\_ MONTH

PERIOD

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NIV	00-02	100.0	100.0	100.0	99.0	96.8	91.9	81.2	60.3	23.1	80.7	899
	03-05	100.0	100.0	100.0	99.3	97.3	93.2	84.4	68.1	29.3	82.5	899
	06-08	100.0	100.0	100.0	99.8	98.2	93.3	85.3	70.9	31.6	83.2	900
	09-11	100.0	100.0	99.3	96.4	90.8	78.1	60.2	34.6	11.8	72.8	898
	12-14	100.0	99.7	97.1	87.9	68.3	43.7	29.0	13.7	4.0	59.8	900
	15-17	100.0	98.8	97.2	86.6	68.4	44.1	30.2	11.9	4.4	59.7	900
	18-20	100.0	100.0	98.8	97.1	91.1	80.0	62.1	34.1	9.0	72.9	900
	21-23	100.0	100.0	99.9	98.4	95.2	89.1	74.0	50.2	18.9	78.0	900
TOTALS		100.0	99.8	99.0	95.6	88.3	76.7	63.3	43.0	16.5	73.7	7196

USAF ETAC  
FORM  
JUL 64  
0-87-5 (OL 1)

FORM  
JUL 64

0-87-5 (OL 1)

## RELATIVE HUMIDITY

DEC 30 1964

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
DEC	00-02	100.0	100.0	100.0	99.9	99.1	95.7	86.2	69.1	25.4	83.1	930
	03-05	100.0	100.0	100.0	99.9	99.7	97.7	91.5	74.2	29.6	84.3	930
	06-08	100.0	100.0	100.0	100.0	99.2	97.6	92.5	77.0	30.6	84.8	930
	09-11	100.0	99.9	99.7	99.1	97.0	88.5	73.4	52.6	17.7	78.6	930
	12-14	100.0	99.7	98.5	94.4	80.2	62.2	41.7	22.2	6.8	65.9	928
	15-17	100.0	99.8	98.5	95.6	83.7	63.9	45.1	22.5	7.2	67.3	930
	18-20	100.0	99.9	99.7	99.4	97.3	89.4	74.3	49.1	15.4	78.0	930
	21-23	100.0	100.0	100.0	99.8	99.0	93.3	83.9	65.7	22.0	81.7	930
TOTALS		100.0	99.9	99.6	98.5	94.4	86.0	73.8	54.1	19.3	78.0	7438

DATA PROCESSING BRANCH  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

14011 STATION TURREJON AB SPAIN/MADRID PERIOD 68-78 ALL MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	99.7	98.2	94.1	86.2	72.3	53.3	17.4	77.5	7435
FEB		100.0	99.9	98.8	95.3	86.4	75.3	58.6	38.5	14.9	72.3	6768
MAR		100.0	99.5	96.3	88.4	77.1	62.3	45.5	26.6	6.5	65.8	7438
APR		100.0	99.8	95.6	85.5	71.6	54.6	39.2	19.0	3.6	62.4	7050
MAY		100.0	98.9	93.1	81.8	68.1	53.0	39.8	22.5	6.8	61.9	7432
JUN		100.0	97.3	84.9	70.2	55.9	42.8	31.1	17.3	6.6	56.1	7199
JUL		100.0	86.8	64.1	44.0	26.9	15.1	7.9	3.1	.6	40.4	7438
AUG		99.9	91.0	67.7	47.8	30.4	16.2	7.7	2.8	.6	41.9	7440
SEP		100.0	97.2	84.8	68.9	52.1	35.2	23.4	10.6	2.7	53.1	7199
OCT		100.0	99.4	95.3	86.8	74.7	59.8	46.1	27.9	12.2	65.8	7437
NOV		100.0	99.8	99.0	95.6	88.3	76.7	63.3	43.0	16.5	73.7	7196
DEC		100.0	99.9	99.6	98.5	94.4	86.0	73.8	54.1	19.3	78.0	7438
TOTALS		100.0	97.5	89.9	80.1	68.3	55.3	42.4	26.6	9.0	62.4	87470

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

# PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times (GCT). The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

### NOTES:

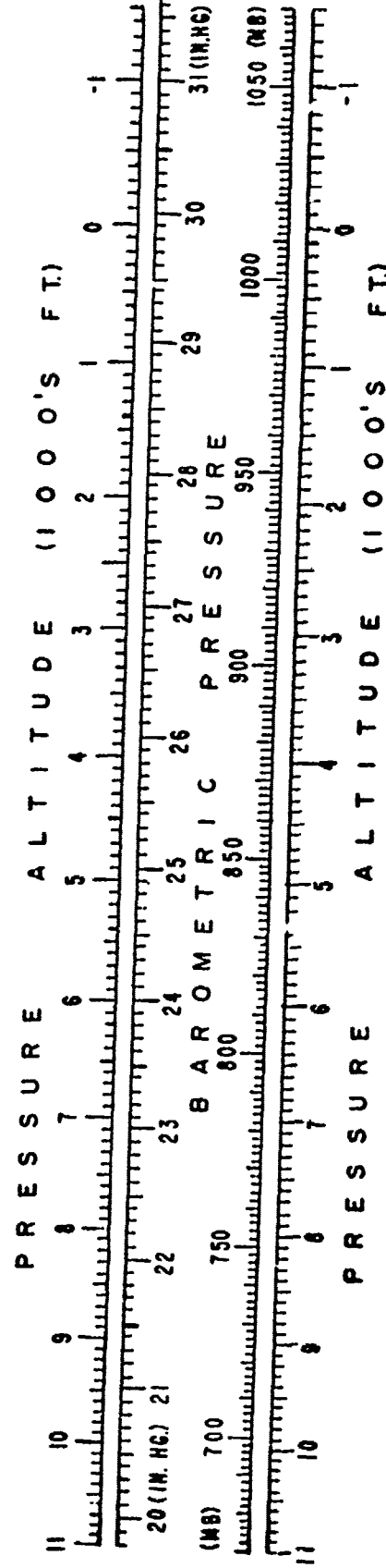
Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



DATA PROCESSING BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

14011

TURREJON AR SPAIN/MADRID

68-78

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00	MEAN 27.98627 S D .253 TOTAL OBS 310	94427 .230 232	91227 .193 310	88927 .188 273	90227 .142 310	94527 .115 300	97027 .089 310	95427 .090 310	98427 .113 300	01328 .170 310	01728 .194 300	01527 .257 310	27.962 .183 3625
03	MEAN 27.98027 S D .252 TOTAL OBS 310	93227 .233 282	89727 .196 310	87627 .189 273	89027 .147 309	93827 .119 299	96627 .092 310	95027 .089 310	97828 .117 300	00128 .172 310	00428 .197 300	00827 .256 310	27.952 .185 3623
06	MEAN 27.97127 S D .252 TOTAL OBS 310	92627 .239 282	89927 .197 310	89027 .192 299	90227 .150 310	95327 .121 300	98327 .094 309	96427 .091 310	98827 .120 300	00728 .174 310	00127 .201 300	0127 .259 310	27.957 .187 3650
09	MEAN 28.00227 S D .251 TOTAL OBS 310	95127 .244 282	92327 .199 310	91027 .192 300	91527 .150 309	96227 .119 300	99227 .092 310	97827 .088 310	01328 .120 300	03728 .176 310	03128 .202 300	02627 .260 310	27.979 .188 3651
12	MEAN 27.99627 S D .245 TOTAL OBS 310	94627 .240 282	91027 .196 310	89027 .189 300	89727 .145 310	94227 .115 300	97027 .089 309	95527 .087 310	99028 .115 300	01528 .171 310	01428 .197 300	01527 .258 310	27.962 .185 3651
15	MEAN 27.95527 S D .240 TOTAL OBS 310	90227 .232 282	86527 .190 310	85127 .184 300	86427 .141 310	90727 .110 300	92927 .088 310	91327 .085 310	94827 .110 300	97427 .164 310	97527 .191 300	97927 .254 310	27.922 .180 3652
18	MEAN 27.96727 S D .241 TOTAL OBS 310	91227 .229 282	86927 .185 310	84627 .182 300	85527 .135 310	89427 .107 300	90927 .088 310	89627 .083 310	94327 .108 300	98127 .161 310	99127 .189 300	99227 .255 310	27.921 .180 3652
21	MEAN 27.98327 S D .248 TOTAL OBS 310	93927 .230 282	90227 .186 310	88727 .184 300	89227 .134 309	93027 .109 300	94727 .088 310	93627 .087 310	97728 .109 300	00728 .165 310	01228 .190 300	01227 .257 310	27.952 .180 3651
ALL HOURS	MEAN 27.98027 S D .248 TOTAL OBS 2480	93127 .235 2756	89727 .193 2480	88027 .188 2345	89027 .144 2477	93427 .116 2399	95827 .094 2478	94327 .091 2480	97828 .116 2400	00428 .170 2480	00628 .195 2400	00627 .257 2480	27.951 .185 29153